



**An annotated checklist of the jumping plant-lice  
(Insecta: Hemiptera: Psylloidea) from the Mercantour  
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# An annotated checklist of the jumping plant-lice (Insecta: Hemiptera: Psylloidea) from the Mercantour National Park, with seven new records for France and one new synonymy

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## ABSTRACT

A total of 68 psyllid species are listed from the Mercantour National Park in Southeast France, where a targeted collecting campaign was conducted between 2009 and 2012, as part of the project “ATBI+M” Mercantour. The insects were collected using Malaise traps, flight intercept traps and sweep nets to sample in the vegetation. Additional information on distribution, biology and host-plants is provided for each species. Seven species are recorded for the first time from France: *Craspedolepta artemisiae* (Foerster, 1848), *Craspedolepta nebulosa* (Zetterstedt, 1828), *Cacopsylla propinqua* (Schaefer, 1949), *Cyamophila probaskai* (Priesner, 1927), *Eryngiofaga* cf. *refuga* (Loginova, 1966), *Bactericera parastriola* Conci, Ossiannilsson & Tamanini, 1988 and *Trioza flixiana* Burckhardt & Lauterer, 2002. *Trioza* (*Trioza*) *rapisardai* Conci & Tamanini, 1984 is a new subjective synonym of *Trioza brachyceraea* Hodkinson & White, 1979, which was previously known only from the male holotype. The abundance, distribution and introduction status of some species are discussed.

## KEY WORDS

Psyllids,  
Sternorrhyncha,  
faunistics,  
host plants,  
France,  
Alps,  
new records.

## RÉSUMÉ

Liste annotée des psylles (*Insecta: Hemiptera: Psylloidea*) du Parc national du Mercantour, incluant sept espèces nouvelles pour la France et une nouvelle synonymie.

Un total de 68 espèces de psylles est rapporté du Parc national du Mercantour dans le Sud-Est de la France, où a eu lieu une campagne ciblée de collecte entre 2009 et 2012, dans le cadre du projet “ATBI+M” Mercantour. Les insectes furent collectés à l’aide de pièges Malaise, de pièges d’interception et au filet fauchoir dans la végétation. Des données supplémentaires sur la distribution, la biologie et les plantes-hôtes sont fournies pour chaque espèce. Sept espèces sont nouvelles pour la France: *Craspedolepta artemisiae* (Foerster, 1848), *Craspedolepta nebulosa* (Zetterstedt, 1828), *Cacopsylla propinqua* (Schaefer, 1949), *Cyamophila prohaskai* (Priesner, 1927), *Eryngiofaga cf. refuga* (Loginova, 1966), *Bactericera parastricola* Conci, Ossiannilsson & Tamanini, 1988 et *Trioza flixiana* Burckhardt & Lauterer, 2002. *Trioza* (*Trioza*) *rapisardai* Conci & Tamanini, 1984 est un nouveau synonyme de *Trioza brachyceraea* Hodkinson & White, 1979, connu jusqu’à présent de l’holotype mâle uniquement. L’abondance, la distribution et le statut d’espèce introduite sont aussi considérés pour quelques espèces.

## MOTS CLÉS

Psylles,  
Sternorrhyncha,  
faunistique,  
plantes-hôtes,  
France,  
Alpes,  
signalisations nouvelles.

## INTRODUCTION

Psylloidea, or jumping plant-lice, are small sap-sucking insects with a world-wide distribution, found on a large variety of plants. Whereas the vast majority of the c. 3900 described species do not seem to have a major impact on their host-plant, a few are economically important pests on crops or ornamental trees.

From a historical point of view, the oldest citation of an adult psyllid and the first mention of a higher taxonomic rank (despite being from pre-Linnean times) for psyllids was made in France by the entomologist Réaumur in 1737, who observed *Homotoma ficus* (Linnaeus, 1758) and *Psylla buxi* (Linnaeus, 1758) in his garden near Paris (Charenton).

The Palaearctic fauna has been thoroughly studied for more than 250 years, and lists have been published for several countries or regional areas, but never for France. Seljak *et al.* (2008) consider the list of psyllids as nearly complete for Central Europe, but this is far from being true for Western Europe. However, a list of 169 species for France is available from the Fauna Europaea website (Burckhardt 2004), and has served as our reference list for the psyllids of France, with a few exceptions mentioned in the text. Full synonymies are not given here, since all taxonomic information can be found in the Psyllist online database (Ouvrard 2014).

Nine psyllid species have been previously reported from the Alpes-Maritimes department in previous publications: *Camarotoscena speciosa* (Flor, 1861) in Cotte (1915), *Euphyllura olivina* (Costa, 1839) in Balachowsky & Mesnil (1935) and Peragallo (1881), *Livia junci* (Schränk, 1789) and *Psylla alni* (Linnaeus, 1758) in Risso (1826), *Psyllopsis fraxini* (Linnaeus, 1758) in Béguinot (2002) and Cotte (1915), *Trichochermes walkeri* (Foerster, 1848), *Trioza centranthi* (Vallot, 1829) and *Trioza kiefferi* Giard, 1902 in Béguinot (2002) and *Trioza rumicis* Löw, 1880 in Cotte (1915).

With the exception of two species in the online ATBI database (<http://www.atbi.eu/mercantour-maritime/?q=node/481>), namely *Calophya rhois* (Löw, 1877) and *Trioza centranthi* (Vallot, 1829), no psyllids have been reported from the

Mercantour National Park before, and only *Livilla pyrenaica* (Mink, 1859) has been reported from the Alpi Marittime National Park (Conci & Tamanini 1988). The situation is different for the rest of the Alps, where many species are recorded from the Austrian (Wagner & Franz 1961), Swiss (Burckhardt 1983; Burckhardt *et al.* 2007: 47 species from a relatively small area in eastern Switzerland) and Italian (Tamanini 1977; Rapisarda & Conci 1989; Conci *et al.* 1993, 1996) parts.

The full list of collected and identified psyllids is given, together with collecting data, a report of the known distribution of each species and comments concerning the available descriptions and elements of the biology (including host-plants) of each species.

## MATERIAL AND METHODS

From 8 June 2009 to 15 October 2010, 697 (288 males and 409 females) psyllid specimens were collected in 92 Malaise traps and 46 interception traps set up in different locations and at two different altitudes (around 1400 and 2000 m) in the Mercantour National Park (Deharveng *et al.* 2015), as part of the project “ATBI+M” Mercantour dedicated to the inventory and monitoring of the whole biodiversity in the area (more information available at: <http://www.atbi.eu/mercantour-maritime/>).

All samples collected during the “Terrestrial Invertebrates fieldwork module” of the ATBI Mercantour project were labelled using a coding system where “M” refers to Mercantour, “9” or “10” indicates the sampling year, “BOR”, “SES” or “CAI” the sampling area, “1400/1500 or 2000” the sampling altitude, T1 to T8 the sequence of the successive sampling periods, “M1 or M2” the Malaise traps and “IN” the interception traps. Detailed information on the trap locations and geographic coordinates, the sampling periods and the main vegetation present at the sampling sites are given in Table 1. The codes and corresponding dates of the successive sampling periods for each sampling site are given in Table 2.

TABLE 1. — Sample codes and general information on the location of the sampling sites (all in Alpes-Maritimes, 06), their main vegetation and the sampling period.

Year	Sample codes	Commune	Locality	Vegetation	Altitude	Longitude	Latitude	Sampling period	Nb of samples
2009	M09-BOR1400 M1 & IN	St-Martin-Vésubie	Le Boréon	Meadows and spruce forest	1540	7.2871439	44.1146875	11.VI-15.X	8 (T1-T8)
2009	M09-BOR1400 M2	St-Martin-Vésubie	Le Boréon	Meadows and spruce forest	1549	7.2890533	44.1143415	11.VI-15.X	8 (T1-T8)
2009	M09-BOR2000 M1	Valdeblore	Col de Salèse	Meadows, Rhododendrons, larch and spruce forest	2058	7.23698	44.13734	10.VI-15.X	8 (T1-T8)
2009	M09-BOR2000 M2	Valdeblore	Col de Salèse	Larch forest	2032	7.2352837	44.1388598	10.VI-15.X	8 (T1-T8)
2009	M09-BOR2000 IN	Valdeblore	Col de Salèse	Larch forest	2047	7.2365699	44.1372935	10.VI-15.X	8 (T1-T8)
2009	M09-SES1400 M1	St-Dalmas-le-Selvage	Vallon de St-Dalmas: La Buisse	Meadows, broadleaved and larch forest	1437	6.8875257	44.2848357	9.VI-15.X	8 (T1-T8)
2009	M09-SES1400 M2	St-Dalmas-le-Selvage	Vallon de St-Dalmas: La Buisse	Meadows, broadleaved and larch forest	1421	6.8867683	44.2850731	9.VI-15.X	8 (T1-T8)
2009	M09-SES1400 IN	St-Dalmas-le-Selvage	Vallon de St-Dalmas: La Buisse	Meadows, broadleaved and larch forest	1436	6.8876092	44.2847834	9.VI-15.X	8 (T1-T8)
2009	M09-SES2000 M1	St-Dalmas-le-Selvage	Bois de Sestrière	Larch forest	1966	6.8240421	44.2927562	8.VI-15.X	8 (T1-T8)
2009	M09-SES2000 M2	St-Dalmas-le-Selvage	Bois de Sestrière	Larch forest	2011	6.8228732	44.2925219	8.VI-15.X	8 (T1-T8)
2009	M09-SES2000 IN	St-Dalmas-le-Selvage	Bois de Sestrière	Larch forest	1995	6.8235944	44.2926706	8.VI-15.X	8 (T1-T8)
2010	M10-CAI1400 M1 & IN	Saorge	Forêt de Caïros: Vallerasse	Fir forest	1379	7.45615	44.00338	1.VII-15.X	7 (T1-T7)
2010	M10-CAI1400 M2	Saorge	Forêt de Caïros: Vallerasse	Fir forest	1387	7.45692	44.00343	1.VII-15.X	7 (T1-T7)
2010	M10-CAI1400 IN	Saorge	Forêt de Caïros: Vallerasse	Fir forest	1398	7.45577	44.00344	1.VII-15.X	7 (T1-T7)
2010	M10-CAI2000 M1	Saorge	Tête de la Poudrière	Larch forest	1953	7.42407	44.01454	30.VI-15.X	7 (T1-T7)
2010	M10-CAI2000 M2	Saorge	Tête de la Poudrière	Larch forest	1992	7.42459	44.01388	30.VI-15.X	7 (T1-T7)
2010	M10-CAI2000 IN	Saorge	Tête de la Poudrière	Larch forest	1985	7.42467	44.01400	30.VI-15.X	7 (T1-T7)

TABLE 2. — Codes and dates of the successive sampling periods for each sampling site.

Year	Site	T1	T2	T3	T4	T5	T6	T7	T8	T9
2009	BOR1400	11.VI-24.VI	24.VI-9.VII	9.VII-24.VII	24.VII-13.VIII	13.VIII-27.VIII	27.VIII-18.IX	18.IX-5.X	5.X-15.X	no sample
2009	BOR2000	10.VI-24.VI	24.VI-9.VII	9.VII-24.VII	24.VII-13.VIII	13.VIII-27.VIII	27.VIII-18.IX	18.IX-5.X	5.X-15.X	no sample
2009	SES1400	9.VI-30.VI	30.VI-10.VII	10.VII-23.VII	23.VII-7.VIII	7.VIII-19.VIII	19.VIII-22.IX	22.IX-7.X	7.X-15.X	no sample
2009	SES2000	8.VI-24.VI	24.VI-10.VII	10.VII-23.VII	23.VII-7.VIII	7.VIII-19.VIII	19.VIII-22.IX	22.IX-7.X	7.X-15.X	no sample
2010	CAI1400	1.VII-16.VII	16.VII-31.VII	31.VII-16.VIII	16.VIII-30.VIII	30.VIII-15.IX	15.IX-30.IX	30.IX-15.X	no sample	no sample
2010	CAI2000	30.VI-16.VII	16.VII-31.VII	31.VII-16.VIII	16.VIII-30.VIII	30.VIII-15.IX	15.IX-30.IX	30.IX-15.X	no sample	no sample

In addition, the third author (CC) has made several collecting trips to the Mercantour National Park (June 1994, 2 and 4 July 2008; 9, 13, 16-23 July 2009; 8-15 July 2011). A few specimens collected in 2012 by Jean-Claude Streito (INRA, Montpellier) are also reported, as well as specimens collected by Igor Malenovský (Moravian Museum, Brno, Czech Republic) between 1994 and 1996. All specimens were caught by sweeping low vegetation or beating branches of bushes and trees.

In addition to the reference list of Fauna Europaea, the present data have been cross-checked with the dataset of the “Inventaire National du Patrimoine Naturel” (INPN: <http://inpn.mnhn.fr/accueil/index>) for the completeness of data from France, and with both the GBIF portal (<http://data.gbif.org>) and the Psyl'list database (Ouvrard 2014) for the world-wide distribution.

The higher classification follows Burckhardt & Ouvrard (2012).

The Plant List (<http://www.theplantlist.org/>) has been used as the reference for the plant scientific names.

#### ABBREVIATIONS

##### *Institutions*

BMNH	Natural History Museum, London;
CBGP	Centre de biologie pour la Gestion des Populations, Montpellier;
MHNG	Muséum d'Histoire naturelle de Genève;
MMBC	Moravian Museum, Brno, Czech Republic;
MNHN	Muséum national d'Histoire naturelle, Paris;
NHMB	Naturhistorisches Museum, Basel.

#### SYSTEMATICS

Superfamily PSYLLOIDEA Latreille, 1807

Family APHALARIDAE Löw, 1879

Subfamily APHALARINAE Löw, 1879

Genus *Aphalara* Foerster, 1848

*Aphalara sauteri* Burckhardt, 1983

*Aphalara sauteri* Burckhardt, 1983: 47.

MATERIAL EXAMINED. — **France.** Alpes-de-Haute-Provence, Fours, Bois de la Tellièrre, 1420 m, 44°19'5.415"N-6°37'52.8996"E, 01.IX.2012 C. Cocquempot (CBGP), 1 adult; Alpes-Maritimes, Bolène-Vesubie, massif de la cime du Diable, 1800-2600 m, 28.VIII.1995, 1♂ I. Malenovský (MMBC); Alpes-Maritimes, La Brigue, French-Italian border between Mt Grai (2013 m) and Cime de Marte (2135 m), 21.VIII.1996, 1♀, I. Malenovský (MMBC).

DISTRIBUTION. — Fauna Europaea: Austria, France, Italy (mainland + Sardinia), Slovakia, Spain, Switzerland; INPN: no data; additional data from Psyl'list: Slovenia.

##### COMMENTS

Description and biology in Burckhardt & Lauterer (1997). Host-plant: *Rumex scutatus* L. (Polygonaceae).

Genus *Craspedolepta* Enderlein, 1921

*Craspedolepta artemisiae* (Foerster, 1848)

*Aphalara artemisiae* Foerster, 1848: 96.

MATERIAL EXAMINED. — **France.** Alpes-de-Haute-Provence, Fours, Bayasse, 1790 m, 44°18'39.366"N-6°44'23.0022"E, 11.VII.2011, on *Artemisia* sp., C. Cocquempot (CBGP), 102 adults.

DISTRIBUTION. — Fauna Europaea: Bulgaria, Czech Republic, Germany, Moldova, Poland, Romania, Russia Central, Slovakia, Spain (doubtful), Ukraine; INPN: no data; additional data from Psyl'list: Hungary.

##### COMMENTS

Description in Wagner (1947), Vondráček (1957), Loginova (1963), Klimaszewski (1983) and Konovalova (1988). Biology unknown. Host-plant: *Artemisia campestris* L. (Asteraceae). New for France.

*Craspedolepta malachitica* (Dahlbom, 1851)

*Psylla malachitica* Dahlbom, 1851: 177.

MATERIAL EXAMINED. — **France.** Alpes-Maritimes, Saint-Dalmas-de-Tende, Refuge Neige et Merveilles, 1545 m, 44°4'12.0318"N-7°30'44.064"E, 17.VII.2009, on *Artemisia* sp. C. Cocquempot (CBGP), 43 adults; Alpes-Maritimes, Tende, Les Mesches, 1450 m, 10.VII.1994, 14♂, 5♀, I. Malenovský (MMBC).

DISTRIBUTION. — Fauna Europaea: Austria, Czech Republic, Finland, France, Germany, Great Britain, Italy, Moldova, Norway, Poland, Romania, Russia, Slovakia, Sweden, Switzerland, Ukraine; INPN: no data; additional data from Psyl'list: Armenia, Georgia, Kazakhstan, Mongolia.

##### COMMENTS

Description in Hodkinson & White (1979a) and Ossiannilsson (1992). Biology in Conci *et al.* (1993) and Ossiannilsson (1992). Host-plants: *Artemisia absinthium* L. and *A. maritima* Ledeb. (Asteraceae).

*Craspedolepta nebulosa* (Zetterstedt, 1828)

*Chermes nebulosa* Zetterstedt, 1828: 551.

MATERIAL EXAMINED. — **France.** Alpes-Maritimes, Lantosque, Col d'Andrion (Col du Fort), 1990 m, 44°1'3.8202"N-7°15'12.1206"E, 13.VII.2009, on *Epilobium angustifolium* L., C. Cocquempot (CBGP), 48 adults.

DISTRIBUTION. — Fauna Europaea: Austria, Czech Republic, Denmark, Finland, Germany, Great Britain, Italy, Moldova, Norway, Poland, Romania, Russia, Slovakia, Sweden, Switzerland, Ukraine; INPN: no data; additional data from Psyl'list: Canada, Ireland, Kazakhstan, United States of America (Alaska, California, Colorado, New Hampshire, Washington).

##### COMMENTS

Description in Hodkinson & White (1979a) and Ossiannilsson (1992). Biology in Ossiannilsson (1992), Conci *et al.* (1993) and Lauterer (1993). Host-plant: *Epilobium angustifolium* L. (Onagraceae). New for France.

*Craspedolepta nervosa* (Foerster, 1848)

*Aphalara nervosa* Foerster, 1848: 90.

MATERIAL EXAMINED. — **France.** Alpes-Maritimes, Saint-Martin-Vésubie, M09-BOR1400-T2-M2, 1♂ (BMNH); same locality, M09-BOR1400-T1-M1, 2♀ (MNHN); Alpes-Maritimes, Saint-Dalmas-le-Selvage, M09-SES1400-T1-IN, 1♀ (BMNH); same locality, M09-SES1400-T1-M1, 1♂ (MNHN); Alpes-de-Haute-Provence, Larche, Vallon du Lauzanier, val Fourane, 1923 m, 44°24'54.5004"N-6°53'10.4166"E, 12.VII.2011, C. Cocquempot (CBGP), 6 adults; Alpes-Maritimes, Moulinet, Col de Turini, piste de Gasta-Fume, 1625 m, 43°58'27.1482"N-7°23'42.7374"E, 02.VII.2008, C. Cocquempot (CBGP), 18 adults.

DISTRIBUTION. — Fauna Europaea: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Great Britain, Ireland, Italy, Moldova, Norway, Poland, Romania, Russia, Slovakia, Sweden,



Switzerland, The Netherlands, Ukraine; INPN: no data; additional data from Psyl'list: Hungary, Iraq, Mongolia, Slovenia.

#### COMMENTS

Description in Hodkinson & White (1979a) and Ossianilsson (1992). Biology in Conci *et al.* (1993). Host-plants: several species of *Achillea* (Asteraceae).

Subfamily RHINOCOLINAE Vondráček, 1957

Genus *Lisronia* Loginova, 1976

*Lisronia varicicosta* (Hodkinson & Hollis, 1981)

*Rhachistoneura varicicosta* Hodkinson & Hollis, 1981: 66.

MATERIAL EXAMINED. — **France**. Alpes-Maritimes, Saorge, M10-CAI2000-T1-M2, 1♀ (MNHN).

DISTRIBUTION. — Fauna Europaea: France, Greece, Italy (mainland + Sardinia + Sicily), Portugal, Spain (Balearic Is.), North Africa; INPN: no data; additional data from Psyl'list: Algeria, Israel.

#### COMMENTS

Description in Hodkinson & Hollis (1981) and Rapisarda (1987). Biology in Conci *et al.* (1993). Host-plants: several species of *Cistus* and *Tuberana lignosa* (Sweet) Samp. (Cistaceae).

Genus *Rhinocola* Foerster, 1848

*Rhinocola aceris* (Linnaeus, 1758)

*Chermes aceris* Linnaeus, 1758: 454.

MATERIAL EXAMINED. — **France**. Alpes-Maritimes, Saint-Dalmas-le-Selvage, M09-SES1400-T2-M2, 1♂ (MNHN); Alpes-de-Haute-Provence, Entraunes, Oustamura, 1360 m, 44°11'37.8528"N-6°44'27.6144"E, 14.VII.2011, on *Acer* sp., C. Cocquempot (CBGP), 2 adults; Alpes-de-Haute-Provence, Entraunes, Piste de la Cascade de l'Aiglier, 1420 m, 44°12'24.9732"N-6°44'33.4782"E, 14.VII.2011, on *Acer* sp., C. Cocquempot (CBGP), 6 adults; Alpes-de-Haute-Provence, Colmars-les-Alpes, Piste de Ratéry, 1670 m, 44°11'16.5804"N-6°39'15.4548"E, 10.VII.2011, on *Acer* sp., C. Cocquempot (CBGP), 1 adult; Alpes-Maritimes, Saint-Dalmas-de-Tende, Refuge Neige et Merveilles, 1545 m, 44°4'12.0318"N-7°30'44.064"E, 16.VII.2009, on *Acer* sp., C. Cocquempot (CBGP), 53 adults.

DISTRIBUTION. — Fauna Europaea: Austria, Belgium, Bulgaria, Czech Republic, Denmark, Finland, France, Germany, Great Britain, Greece, Italy (mainland + Sicily), Moldova, Norway, Poland, Romania, Russia, Slovakia, Slovenia, Sweden, Switzerland, Ukraine; INPN: no data; additional data from Psyl'list: Armenia, Baltic States, Caucasus, Georgia, Hungary, Tunisia, Turkey.

#### COMMENTS

Description in Hodkinson & White (1979a) and Ossianilsson (1992). Biology in Conci *et al.* (1993) and Lauterer (2011). Host-plants: several species of *Acer* (Aceraceae).

Subfamily SPONDYLIASPIDINAE Schwarz, 1898

Genus *Ctenarytaina* Ferris & Klyver, 1932

*Ctenarytaina eucalypti* (Maskell, 1890)

*Rhinocola eucalypti* Maskell, 1890: 160.

MATERIAL EXAMINED. — **France**. Alpes-Maritimes, Saint-Dalmas-le-Selvage, M09-SES1400-T1-M2, 2♂ (MNHN, BMNH).

DISTRIBUTION. — Fauna Europaea: France, Germany, Great Britain, Ireland, Italy, Portugal (mainland + Madeira), Spain (mainland + Canary Is.), Switzerland, Afro-tropical region, Australian region, Neotropical region, Oriental region; INPN: no data; additional data from Psyl'list: Australia, Bolivia, Brazil, Chile, Colombia, New Zealand, Papua New Guinea, Portugal (Azores), South Africa, Sri Lanka, United States of America (California).

#### COMMENTS

Description in Hodkinson & White (1979a). Biology in Burckhardt (1994a, 1998). Biological control review in Queiroz *et al.* (2012). Native to Australia, including Tasmania. Reported from France as early as 1925 (Mercier & Poisson 1926). Host-plants: several species of *Eucalyptus* (Myrtaceae).

Family CALOPHYIDAE Vondráček, 1957

Subfamily CALOPHYINAE Vondráček, 1957

Genus *Calophya* Löw, 1879

*Calophya rhois* (Löw, 1877)

*Psylla rhois* Löw, 1877: 148.

MATERIAL EXAMINED. — **France**. Alpes-Maritimes, Saorge, Route du Caïros, 604 m, 43°59'49.1064"N-7°30'22.9602"E, 20.VII.2009, on *Rhus cotinus* L. [= *Cotinus coggygria* Scop.], C. Cocquempot (CBGP), 54 adults.

DISTRIBUTION. — Fauna Europaea: Austria, Bulgaria, Czech Republic, France, Great Britain, Greece, Italy, Moldova, Romania, Slovenia, Spain, Ukraine. East Palearctic, Near East; INPN: observed in 2009 in Mercantour National Parc (data ATBI Mercantour; square 10 km L93E106N633); additional data from Psyl'list: China, Georgia, Hungary, Russia, Serbia, Turkey.

#### COMMENTS

Description in Hodkinson & White (1979a). Biology in Conci *et al.* (1996). Host-plant: *Cotinus coggygria* Scop. (Anacardiaceae).

Family LIVIIDAE Löw, 1879

Subfamily EUPHYLLURINAE Crawford, 1914

Genus *Psyllopsis* Löw, 1879

*Psyllopsis fraxini* (Linnaeus, 1758)

*Chermes fraxini* Linnaeus, 1758: 454.

MATERIAL EXAMINED. — **France**. Alpes-de-Haute-Provence, Colmars-les-Alpes, 1350 m, 44°11'12.8472"N-6°38'4.6896"E, 10.VII.2011, on *Fraxinus* sp., C. Cocquempot (CBGP), 1 adult; Alpes-Maritimes, Saorge, L'Abéon, 1266 m, 43°59'39.3288"N-7°29'14.355"E,

20.VII.2009, on *Fraxinus* sp., C. Cocquempot (CBGP), 16 adults; Alpes-de-Haute-Provence, Entraunes, Piste de la Cascade de l'Aiglière, 1420 m, 44°12'24.9732"N-6°44'33.4782"E, 14.VII.2011, on *Fraxinus* sp., C. Cocquempot (CBGP), 1 adult; Alpes-de-Haute-Provence, Entraunes, Le Clôt, 1324 m, 44°11'47.0724"N-6°44'40.9878"E, 11.VII.2011, C. Cocquempot (CBGP), 1 adult.

DISTRIBUTION. — Fauna Europaea: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Great Britain, Ireland, Italy (mainland + Sicily), Moldova, Norway, Poland, Romania, Russia, Slovakia, Slovenia, Spain, Sweden, Switzerland, The Netherlands, Ukraine; INPN: no data; additional data from Psyllist: Australia (Tasmania), Hungary, Iran, New Zealand, Slovenia, United States of America (New York), West Himalaya (Uttaranchal = Uttarakhand).

#### COMMENTS

Description in Hodkinson & White (1979a), Conci & Tamanini (1990) and Ossiannilsson (1992). Biology in Ossiannilsson (1992) and Conci *et al.* (1993). Host-plants: several species of *Fraxinus* (Oleaceae).

### *Psyllopsis fraxinicola* (Foerster, 1848)

*Psylla fraxinicola* Foerster, 1848: 73.

MATERIAL EXAMINED. — **France.** Alpes-Maritimes, Saint-Dalmas-le-Selvage, M09-SES1400-T2-M2, 1♂ (MNHN); Alpes-Maritimes, Saint-Dalmas-de-Tende, Refuge Neige et Merveilles, 1545 m, 44°4'12.0318"N-7°30'44.064"E, 16.VII.2009, on *Fraxinus* sp., C. Cocquempot (CBGP), 49 adults; Alpes-Maritimes, Saorge, L'Abéon, 1266 m, 43°59'39.3288"N-7°29'14.355"E, 20.VII.2009, on *Fraxinus* sp., C. Cocquempot (CBGP), 81 adults; Alpes-de-Haute-Provence, Entraunes, Piste de la Cascade de l'Aiglière, 1420 m, 44°12'24.9732"N-6°44'33.4782"E, 14.VII.2011, on *Fraxinus* sp., C. Cocquempot (CBGP), 2 adults.

DISTRIBUTION. — Fauna Europaea: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Great Britain, Greece, Ireland, Italy (mainland + Sardinia + Sicily), Malta, Moldova, Norway, Poland, Romania, Slovakia, Spain, Sweden, Switzerland, The Netherlands, Ukraine; INPN: no data; additional data from Psyllist: Algeria, Armenia, Australia, Canada (British Columbia, Nova Scotia), Georgia, Hungary, Kazakhstan, Lithuania, New Zealand, Slovenia, Turkey, United States of America (California, Connecticut, Idaho, New Jersey, Utah, Washington DC).

#### COMMENTS

Description in Hodkinson & White (1979a), Conci & Tamanini (1990a) and Ossiannilsson (1992). Biology in Ossiannilsson (1992) and Conci *et al.* (1993). Host-plants: *Fraxinus dipetala* Hook. & Arn. (North America), *Fraxinus excelsior* L. and *Fraxinus ornus* L. (Oleaceae).

Family PSYLLIDAE Latreille, 1807

Subfamily ACIZZIINAE White & Hodkinson, 1985

Genus *Acizzia* Heslop-Harrison, 1961

### *Acizzia uncatoides* (Ferris & Klyver, 1932)

*Psylla uncatoides* Ferris & Klyver, 1932: 53.

MATERIAL EXAMINED. — **France.** Alpes-Maritimes, Saint-Dalmas-le-Selvage, M09-SES1400-T2-M2, 1♀ (MNHN); Alpes-Maritimes,

Saint-Dalmas-de-Tende, Lac de la Muta, 2365 m, 44°2'57.2742"N-7°26'5.694"E, 18.VII.2009, C. Cocquempot (CBGP), 12 adults; Alpes-Maritimes, Saint-Dalmas-de-Tende, Lac de Trem, 2270 m, 44°3'5.0472"N-7°26'36.8622"E, 18.VII.2009, C. Cocquempot (CBGP), 8 adults; Breil-sur-Roya, Authion, vacherie de l'Ortiguier, 1960 m, 43°59'40.6284"N-7°26'1.0536"E, on *Larix decidua*, 20.VII.2009, C. Cocquempot (CBGP), 1 adult; Alpes-Maritimes, Saorge, Forêt de Caïros, M10-CAI2000-T1-M2, 1♂ (MNHN); Alpes-Maritimes, La Brigue, French-Italian border between Mt Grai (2013 m) and Cime de Marte (2135 m), 21.VIII.1996, 7♂, 3♀, I. Malenovský (MMBC).

DISTRIBUTION. — Fauna Europaea: France, Italy (mainland + Sicily), Malta, Portugal (mainland + Azores), Spain (Canary Islands), ex-Yugoslavia; INPN: no data; additional data from Psyllist: Algeria, Australia, Chile, Colombia, France (Guadeloupe), Great Britain, Israel, Lebanon, Mexico, Montenegro, New Zealand, United States of America (California, Hawaii).

#### COMMENTS

Description in Hodkinson & Hollis (1987). Introduced and established in France, reported for the first time in 1976 (Bain *et al.* 1976). Native to Australia. Host-plants are species of *Acacia* and *Albizia* (Fabaceae). In France, it has been collected on *Acacia baileyana* F. Muell. Populations of *A. uncatoides* undergo 6 to 8 generations per year in Italy (Conci *et al.* 1996).

Subfamily PSYLLINAE Latreille, 1807

Genus *Baeopelma* Enderlein, 1926

### *Baeopelma foersteri* (Flor, 1861)

*Psylla foersteri* Flor, 1861: 458.

MATERIAL EXAMINED. — **France.** Alpes-Maritimes, Lantosque, Saint-Colomban, Camari, 897 m, 43°57'7.9956"N-7°20'52.5906"E, 04.VII.2008, on *Alnus* sp., C. Cocquempot (CBGP), 3 adults.

DISTRIBUTION. — Fauna Europaea: Austria, Belgium, Bulgaria, Czech Republic, Denmark, Finland, France, Germany, Great Britain, Greece, Ireland, Italy (mainland + Sardinia + Sicily), Moldova, Norway, Poland, Romania, Russia, Slovakia, Slovenia, Spain, Sweden, Switzerland, The Netherlands, Ukraine; INPN: no data; additional data from Psyllist: Algeria, Caucasus, Hungary, Lebanon, Turkey.

#### COMMENTS

Description in Hodkinson & White (1979a) and Ossiannilsson (1992). Biology in Ossiannilsson (1992) and Conci *et al.* (1993). Host-plants: *Alnus incana* (L.) Moench and *A. glutinosa* (L.) Gaertn. (Betulaceae).

Genus *Cacopsylla* Ossiannilsson, 1970

### *Cacopsylla albipes* (Flor, 1861)

*Psylla albipes* Flor, 1861: 364.

MATERIAL EXAMINED. — **France.** Alpes-Maritimes, Saorge, M10-CAI1400-T5-M2, 1♀ (MNHN); same locality, M10-CAI2000-T1-M1, 1♀ (BMNH); Alpes-Maritimes, Bolène-Vesubie, massif de la cime du Diable, 1800-2600 m, 28.VIII.1995, 1♂, I. Malenovský (MMBC).

DISTRIBUTION. — Fauna Europaea: Austria, France, Germany, Great Britain, Italy, Poland, Slovakia, Switzerland, Ukraine; INPN: no data; additional data from Psyl'list: Bulgaria, Crimea, Czech Republic, Georgia, Slovenia, Turkey.

#### COMMENTS

Description in Hodkinson & White (1979a), Vondráček (1957), Burckhardt (2010). Biology in Conci *et al.* (1993). Host-plants: several species of *Sorbus* (Rosaceae).

### *Cacopsylla ambigua* (Foerster, 1848)

*Psylla ambigua* Foerster, 1848: 74.

MATERIAL EXAMINED. — **France.** Alpes-Maritimes, Saint-Martin-Vésubie, M09-BOR1400-T1-M2, 1♀ (MNHN); Alpes-Maritimes, Valdeblorre, M09-BOR2000-T2-M1, 2♀ (MNHN, BMNH); Alpes-de-Haute-Provence, Larche, Malboisset, 1700 m, 44°24'42.5298"N-6°51'26.5752"E, 12.VII.2011, on *Salix* sp., C. Cocquempot (CBGP), 33 adults; Alpes-Maritimes, Castérino, Pont des Gasis, 1540 m, 44°5'19.8276"N-7°30'59.76"E, 22.VII.2009, on *Salix* sp., C. Cocquempot (CBGP), 28 adults; Alpes-Maritimes, Lantosque, Granges de la Brasque, 1690 m, 44°0'28.6704"N-7°14'56.9106"E, 09.VII.2009, on *Salix* sp., C. Cocquempot (CBGP), 28 adults; Alpes-Maritimes, Lantosque, Saint-Colomban, Camari, 897 m, 43°57'7.9956"N-7°20'52.5906"E, 04.VII.2008, on *Salix* sp., C. Cocquempot (CBGP), 7 adults; Alpes-Maritimes, Tende, Les Mesches, 1450 m, 10.VII.1994, 1♂, 2♀, I. Malenovský (MMBC).

DISTRIBUTION. — Fauna Europaea: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Great Britain, Greece, Ireland, Italy (mainland + Sardinia + Sicily), Moldova, Norway, Poland, Romania, Russia, Slovakia, Spain, Sweden, Switzerland, Ukraine; INPN: no data; additional data from Psyl'list: Greenland, Hungary, Japan, Slovenia.

#### COMMENTS

Description in Hodkinson & White (1979a). Biology in Lauterer (1976) and Conci *et al.* (1993). Host-plants: several species of *Salix* (Salicaceae).

### *Cacopsylla breviantennata* (Flor, 1861)

*Psylla breviantennata* Flor, 1861: 375.

MATERIAL EXAMINED. — **France.** Alpes-Maritimes, Saint-Dalmas-le-Selvage, M09-SES1400-T2-M2, 1♀ (MNHN); same locality, M09-SES1400-T8-IN, 1♀ (BMHN); Alpes-Maritimes, Saorge, M10-CAI1400-T6-M1, 1♂ (MNHN); same locality, M10-CAI2000-T7-M1, 1♂ (MNHN); Alpes-Maritimes, Saint-Martin-Vésubie, M09-BOR1400-T1-M1, 1♂ (BMNH).

DISTRIBUTION. — Fauna Europaea: Austria, Balears, Czech Republic, France, Germany, Italy, Romania, Switzerland; INPN: no data; additional data from Psyl'list: Greenland, Hungary, Japan, Slovenia.

#### COMMENTS

Description in Vondráček (1957), Dobreanu & Manolache (1962), Klimaszewski (1963) and Burckhardt (2010). Biology in Conci *et al.* (1993). Host-plants: *Sorbus aria* Crantz (Rosaceae).

### *Cacopsylla brunneipennis* (Edwards, 1896)

*Psylla brunneipennis* Edwards, 1896: 238.

MATERIAL EXAMINED. — **France.** Alpes-Maritimes, Saint-Martin-Vésubie, M09-BOR1400-T1-M1, 3♀ (MNHN); same locality, M09-BOR1400-T2-M1, 2♀ (MNHN); same locality, M09-BOR1400-T8-M1, 1♀ (MNHN); same locality, M09-BOR1400-T1-M2, 4♀ (MNHN); same locality, M09-BOR1400-T2-M2, 3♀ (MNHN); same locality, M09-BOR1400-T8-M2, 1♀ (MNHN); Alpes-Maritimes, Valdeblorre, M09-BOR2000-T2-M1, 1♀ (MNHN); same locality, M09-BOR2000-T7-M1, 1♂ (MNHN); same locality, M09-BOR2000-T2-M2, 2♂, 1♀ (MNHN); Alpes-Maritimes, Saint-Dalmas-le-Selvage, M09-SES2000-T1-IN, 1♀ (MNHN); same locality, M09-SES1400-T1-M2, 1♀ (MNHN); same locality, M09-SES1400-T1-M2, 1♀ (MNHN); Alpes-Maritimes, Saorge, M10-CAI1400-T1-M2, 1♀ (MNHN); same locality, M10-CAI1400-T6-M2, 1♂, 1♀ (MNHN); same locality, M10-CAI1400-T3-M2, 1♂ (MNHN); same locality, M10-CAI1400-T7-M2, 2♀ (MNHN); same locality, M10-CAI1400-T3-M1, 1♀ (MNHN); same locality, M10-CAI1400-T7-M1, 2♀ (MNHN); same locality, M10-CAI2000-T1-M1, 7♂, 36♀ (MNHN); same locality, M10-CAI2000-T2-M1, 1♀ (MNHN); same locality, M10-CAI2000-T3-M1, 5♂, 24♀ (MNHN); same locality, M10-CAI2000-T4-M1, 8♀ (MNHN); same locality, M10-CAI2000-T5-M1, 6♀; same locality, M10-CAI2000-T6-M2, 1♂, 7♀ (MNHN); same locality, M10-CAI2000-T7-M1, 3♂, 18♀ (MNHN); same locality, M10-CAI2000-T1-M2, 3♂, 24♀ (MNHN); same locality, M10-CAI2000-T2-M2, 1♂, 3♀ (MNHN); same locality, M10-CAI2000-T3-M2, 1♂, 5♀ (MNHN); same locality, M10-CAI2000-T3-IN, 1♀ (MNHN); same locality, M10-CAI2000-T1-M2, 1♀ (MNHN); same locality, M10-CAI2000-T7-M2, 2♂, 3♀ (BMNH); Alpes-Maritimes, Breil-sur-Roya, Authion, vacherie de l'Ortiguier, 1960 m, 43°59'40.6284"N-7°26'1.0536"E, 20.VII.2009, on *Larix decidua* Mill., C. Cocquempot (CBGP), 62 adults; same data except Moulinet, Col de Turini, 1610 m, 43°58'37.56"N-7°23'30.7782"E, 09.VII.2009, on herbaceous plants, 1 adult; same data except Lantosque, Piste du col du Fort, 1770 m, 44°0'43.9668"N-7°14'45.3546"E, 13.VII.2009, on *Larix decidua* Mill., 21 adults; same data except Col d'Andrion (Col du Fort), 1990 m, 44°1'3.8202"N-7°15'12.1206"E, 13.VII.2009, on *Larix decidua* Mill., 1 adult; same data except Lantosque, Granges de la Brasque, 1690 m, 44°0'28.6704"N-7°14'56.9106"E, 13.VII.2009, 1 adult; same data except Saint-Dalmas-de-Tende, Pas de La Nauque, 2130 m, 44°3'6.4722"N-7°31'21.5148"E, 17.VII.2009, on *Larix decidua* Mill., 8 adults; same data except Lac de Trem, 2270 m, 44°3'5.0472"N-7°26'36.8622"E, 18.VII.2009, 4 adults; Alpes-Maritimes, Tende, Les Mesches, 1450 m, 10.VII.1994, 2♂, 2♀, I. Malenovský (MMBC); Alpes-Maritimes, Breil-sur-Roya, Authion, 1850 m, 28.VIII.1995, 1♂, I. Malenovský (MMBC); Alpes-Maritimes, Bolène-Vesubie, massif de la cime du Diable, 1800-2600 m, 28.VIII.1995, 9♂, 21♀, I. Malenovský (MMBC); Alpes-Maritimes, La Brigue, French-Italian border between Mt Grai (2013 m) and Cime de Marte (2135 m), 21.VIII.1996, 10♂, 11♀, I. Malenovský (MMBC).

DISTRIBUTION. — Fauna Europaea: Austria, Bulgaria, Czech Republic, Denmark, Finland, France, Germany, Great Britain, Ireland, Italy (mainland + Sardinia), Norway, Poland, Romania, Russia, Slovakia, Spain, Sweden, Switzerland, Ukraine; INPN: no data; additional data from Psyl'list: Caucasus, Hungary, Slovenia.

#### COMMENTS

Description in Hodkinson & White (1979) and Ossiannilsson (1992). Biology in Conci *et al.* (1996). Host-plants: several species of *Salix* (Salicaceae).



### *Cacopsylla crataegi* (Schrank, 1801)

*Chermes crataegi* Schrank, 1801: 142.

MATERIAL EXAMINED. — **France.** Alpes-Maritimes, Breil-sur-Roya, Authion, vacherie de l'Ortiguier, 1960 m, 43°59'40.6284"N-7°26'1.0536"E, 20.VII.2009, on *Larix decidua* Mill., C. Cocquempot (CBGP), 1 adult.

DISTRIBUTION. — Fauna Europaea: Austria, Belgium, Bulgaria, Czech Republic, Denmark, France, Germany, Great Britain, Ireland, Italian (mainland + Sardinia + Sicily), Moldova, Poland, Romania, Slovakia, Spain, Sweden, Switzerland, Ukraine; INPN: no data; additional data from Psyl'list: Algeria, Caucasus, Georgia, Greece, Hungary, India, Iran, Israel, Morocco, Slovenia.

#### COMMENTS

Description in Hodkinson & White (1979a), Ossiannilsson (1992) and Burckhardt (2010). Biology in Ossiannilsson (1992) and Conci *et al.* (1993). Host-plants: several species of *Crataegus* (Rosaceae).

### *Cacopsylla iteophila* (Löw, 1876)

*Psylla iteophila* Löw, 1876: 196.

MATERIAL EXAMINED. — **France.** Alpes-de-Haute-Provence, Colmars-les-Alpes, Col des Champs, 1920 m, 44°11'4.884"N-6°40'15.3984"E, 10.VII.2011, on *Larix decidua* Mill., C. Cocquempot (CBGP), 8 adults.

DISTRIBUTION. — Fauna Europaea: Austria, France, Italy, Poland, Slovakia, Spain, Switzerland; INPN: no data; additional data from Psyl'list: Slovenia.

#### COMMENTS

Description in Conci & Tamanini (1990b). Biology in Conci *et al.* (1993). Host-plants: several species of *Salix* (Salicaceae).

### *Cacopsylla limbata* (Meyer-Dür, 1871)

*Psylla limbata* Meyer-Dür, 1871: 392.

MATERIAL EXAMINED. — **France.** Alpes-Maritimes, La Brigue, French-Italian border between Mt Grai (2013 m) and Cime de Marte (2135 m), 21.VIII.1996, 1♂, I. Malenovský (MMBC).

DISTRIBUTION. — Fauna Europaea: France, Italy, Switzerland; INPN: no data; additional data from Psyl'list: no additional data.

#### COMMENTS

Description in Conci & Tamanini (1982). Biology in Conci & Tamanini (1989b) and Conci *et al.* (1993). Host-plants: *Rhamnus alpina* L. and *R. pumila* Turra (Rhamnaceae).

### *Cacopsylla melanoneura* (Foerster, 1848)

*Psylla melanoneura* Foerster, 1848: 75.

MATERIAL EXAMINED. — **France.** Alpes-Maritimes, Valdeblore, M09-BOR2000-T2-M1, 2♂ (MNHN); same locality, M09-BOR2000-T2-M2; Alpes-Maritimes, Saint-Dalmas-le-Selve,

M09-SES2000-T2-M1, 3♀ (MNHN); Alpes-Maritimes, Saorge, M10-CAI1400-T3-M1, 1♂ (MNHN); same locality, M10-CAI1400-T3-M2, 1♀ (MNHN); same locality, M10-CAI1400-T3-M1, 1♂, 1♀ (BMNH); same locality, M10-CAI1400-T4-M1, 1♂ (MNHN); Alpes-Maritimes, Saint-Dalmas-de-Tende, Pas de La Nauque, 2130 m, 44°3'6.4722"N-7°31'21.5148"E, 17.VII.2009, on *Larix decidua* Mill., C. Cocquempot (CBGP), 1 adult; Alpes-Maritimes, La Brigue, French-Italian border between Mt Grai (2013 m) and Cime de Marte (2135 m), 21.VIII.1996, 6♂, 2♀, I. Malenovský (MMBC).

DISTRIBUTION. — Fauna Europaea: Austria, Belgium, Bulgaria, Channel Is., Croatia, Czech Republic, Danish mainland, French mainland, Germany, Great Britain, Greece, Ireland, Italian (mainland + Sardinia), Moldova, Norway, Poland, Romania, Slovakia, Spain, Sweden, Switzerland, The Netherlands (doubtful), Ukraine; INPN: no data; additional data from Psyl'list: Algeria, China, Hungary, Japan, Lithuania, Mongolia, Russia, Slovenia.

#### COMMENTS

Description in Hodkinson & White (1979a), Ossiannilsson (1992) and Burckhardt (2010). Biology in Conci *et al.* (1993). Host-plants: several *Crataegus* species, *Malus domestica* Borkh., *Mespilus germanica* L. and *Pyrus communis* L. (Rosaceae).

### *Cacopsylla myrthi* (Puton, 1876)

*Psylla myrthi* Puton, 1876: 285.

MATERIAL EXAMINED. — **France.** Alpes-Maritimes, Saint-Martin-Vésubie, M09-BOR1400-T1-M2, 1♀ (MNHN); Alpes-Maritimes, Saorge, M10-CAI1400-T1-M2, 1♀ (MNHN); same locality, M10-CAI1400-T3-M2, 1♂, 1♀ (MNHN); same locality, M10-CAI1400-T4-M2, 1♀ (MNHN); same locality, M10-CAI1400-T6-M2, 2♀ (MNHN); same locality, M10-CAI1400-T3-M1, 1♀ (MNHN); Alpes-Maritimes, Saorge, M10-CAI2000-T1-M1, 4♂, 1♀ (MNHN); same locality, M10-CAI2000-T3-M1, 5♂, 4♀ (MNHN); same locality, M10-CAI2000-T4-M1, 3♂, 3♀ (MNHN); same locality, M10-CAI2000-T5-M1, 4♂, 3♀ (MNHN); same locality, M10-CAI2000-T1-M2, 1♂, 1♀ (MNHN); same locality, M10-CAI2000-T2-M2, 10♂, 6♀ (MNHN); same locality, M10-CAI2000-T3-M2, 2♂, 4♀ (BMNH); same locality, M10-CAI2000-T4-M2, 1♂ (MNHN); same locality, M10-CAI2000-T5-M2, 1♂ (MNHN); same locality, M10-CAI2000-T6-M2, 1♂ (MNHN).

DISTRIBUTION. — Fauna Europaea: France, Germany, Greece, Italy (mainland + Sicily), Malta, Spain, Ukraine; INPN: no data; additional data from Psyl'list: Algeria, Israel, Turkey.

#### COMMENTS

Description in Vondráček (1950) (as *Psylla myrthi* Put.) and Loginova (1975) (as *Psylla euxina* Loginova, 1975). Biology in Conci *et al.* (1993). Host-plants: *Rhamnus alaternus* L. and *Rhamnus palaestina* Boiss. (Rhamnaceae).

### *Cacopsylla notata* (Flor, 1861)

*Psylla notata* Flor, 1861: 365.

MATERIAL EXAMINED. — **France.** Alpes-Maritimes, Saint-Dalmas-le-Selve, M09-SES2000-T1-IN, 1♀ (MNHN); Alpes-Maritimes, Moulinet, Col de Turini, piste de Gasta-Fume, 1625 m, 43°58'27.1482"N-7°23'42.7374"E, 02.VII.2008, C. Cocquem-

pot (CBGP), 1 adult; Alpes-Maritimes, Moulinet, Col de Turini, 1610 m, 43°58'37.56"N-7°23'30.7782"E, 09.VII.2009, on herbaceous plants, C. Cocquempot (CBGP), 1 adult; Alpes-Maritimes, Saint-Dalmas-de-Tende, Refuge Neige et Merveilles, 1545 m, 44°4'12.0318"N-7°30'44.064"E, 16.VII.2009, C. Cocquempot (CBGP), 2 adults; Alpes-de-Haute-Provence, Entraunes, Piste de la Cascade de l'Aiglier, 1420 m, 44°12'24.9732"N-6°44'33.4782"E, 14.VII.2011, C. Cocquempot (CBGP), 1 adult; Alpes-Maritimes, Saint-Dalmas-de-Tende, Lac de Trem, 2270 m, 44°3'5.0472"N-7°26'36.8622"E, 18.VII.2009, C. Cocquempot (CBGP), 1 adult.

DISTRIBUTION. — Fauna Europaea: Bulgaria, France, Greece, Italy (mainland + Sardinia + Sicily); INPN: no data; additional data from Psyl'list: Iran, Turkey.

#### COMMENTS

Description in Burckhardt & Hodkinson (1986). Biology in Conci *et al.* (1993). Host-plants: several species of *Pyrus* (Rosaceae).

### *Cacopsylla picta* (Foerster, 1848)

*Psylla picta* Foerster, 1848: 81.

MATERIAL EXAMINED. — **France.** Alpes-Maritimes, Saorge, M10-CAI1400-T5-M2, 1♂ (MNHN).

DISTRIBUTION. — Fauna Europaea: Austria, Belgium, Czech Republic, Finland, France, Germany, Italy, Moldova, Slovakia, Sweden, Switzerland, Ukraine; INPN: no data; additional data from Psyl'list: Bulgaria, Great Britain, Slovenia.

#### COMMENTS

Description in Ossiannilsson (1992), as *Cacopsylla* (*Thamnopsylla*) *costalis* (Flor, 1861), and Burckhardt (2010). Biology in Ossiannilsson (1992). Host-plants: several species of *Malus* (Rosaceae).

### *Cacopsylla propinqua* (Schaefer, 1949) (Fig. 1A)

*Psylla propinqua* Schaefer, 1949: 37.

MATERIAL EXAMINED. — **France.** Alpes-Maritimes, Saint-Dalmas-de-Tende, Lac de la Muta, 2365 m, 44°2'57.2742"N-7°26'5.694"E, 18.VII.2009, C. Cocquempot (CBGP), 1 adult.

DISTRIBUTION. — Fauna Europaea: Finland, Germany, Italy, Norway, Russia, Slovakia (doubtful), Sweden, Switzerland; INPN: no data; additional data from Psyl'list: no additional data.

#### COMMENTS

Description in Schaefer (1949) and Conci & Tamanini (1986a). Biology in Conci *et al.* (1993). Host-plants: several species of *Salix* (Salicaceae). New for France.

### *Cacopsylla pruni* (Scopoli, 1763)

*Chermes pruni* Scopoli, 1763: 140.

MATERIAL EXAMINED. — **France.** Alpes-Maritimes, Saorge, M10-CAI1400-T1-M2, 1♂ (MNHN); same locality, M10-CAI1400-T2-M2, 1♂, 1♀ (BMNH); same locality, M10-CAI1400-T6-M2, 1♀ (MNHN); same locality, M10-CAI2000-T1-M1, 1♂ (MNHN); same locality, M10-CAI2000-T1-M2, 1♂ (MNHN); Alpes-Maritimes, Saint-Martin-Vésubie, M09-BOR1400-T1-M1, 1♀ (MNHN).

DISTRIBUTION. — Fauna Europaea: Austria, Belgium, Bulgaria, Czech Republic, Denmark, Finland, France, Germany, Great Britain, Ireland, Italy, Moldova, Norway, Poland, Romania, Russia, Slovakia, Spain, Sweden, Switzerland, Ukraine; INPN: no data; additional data from Psyl'list: Caucasus, Georgia, Hungary, Iran, Slovenia.

#### COMMENTS

One specimen is noteworthy in lacking the typical orange-brown forewing coloration. Description in Hodkinson & White (1979a), Ossiannilsson (1992) and Burckhardt (2010). Biology in Lauterer (1999; 2011). Host-plants: several *Prunus* species. This species is a vector of "*Candidatus* Phytoplasma prunorum responsible for the European Stone Fruit Yellows (Carraro *et al.* 1998). According to Peccoud *et al.* (2013), *C. pruni* is a complex of two cryptic species.

### *Cacopsylla pulchella* (Löw, 1877)

*Psylla pulchella* Löw, 1877: 143.

MATERIAL EXAMINED. — **France.** Alpes-Maritimes, Saint-Martin-Vésubie, M09-BOR1400-T2-M2, 1♂, 1♀ (BMNH); Alpes-Maritimes, Saint-Dalmas-le-Selvage, M09-SES1400-T8-M2, 1♀ (MNHN); M09-SES2000-T2-M2, 1♂ (MNHN); same locality, M09-SES2000-T8-M2, 1♀ (MNHN).

DISTRIBUTION. — Fauna Europaea: France, Germany, Great Britain, Greece, Italy (mainland + Sicily), Switzerland, Ukraine; INPN: no data; additional data from Psyl'list: Hungary, Israel, Lebanon, Portugal (mainland + Azores), Serbia, Slovenia, Spain (mainland + Balearic Islands), Turkey.

#### COMMENTS

Description in Hodkinson & White (1979a) and Burckhardt (1999). Biology in Burckhardt (1999). Host-plant: *Cercis siliquastrum* L. (Fabaceae).

### *Cacopsylla pulchra* (Zetterstedt, 1840)

*Chermes pulchra* Zetterstedt, 1840: 309.

MATERIAL EXAMINED. — **France.** Alpes-Maritimes, Saint-Martin-Vésubie, M09-BOR1400-T2-M2, 1♂ (MNHN).

DISTRIBUTION. — Fauna Europaea: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Great Britain, Ireland, Italy (mainland + Sardinia + Sicily), Moldova, Norway, Poland, Romania, Russia, Slovakia, Sweden, Switzerland, Ukraine; INPN: no data; additional data from Psyl'list: Caucasus, Hungary, Japan, Slovenia.

#### COMMENTS

Description in Hodkinson & White (1979a) and Ossiannilsson (1992). Biology in Conci *et al.* (1993), Ossiannilsson

(1992) and Lauterer (1998). Host-plants: several species of *Salix* (Salicaceae).

*Cacopsylla rhamnicola* (Scott, 1876)

*Psylla rhamnicola* Scott, 1876: 548.

MATERIAL EXAMINED. — **France.** Alpes-Maritimes, Saint-Dalmas-le-Selvage, M09-SES1400-T7-M2, 1♂ (MNHN); Alpes-Maritimes, Saorge, M10-CAI1400-T4-M2, 1♀ (MNHN).

DISTRIBUTION. — Fauna Europaea: Austria, Czech Republic, Denmark, Finland, France, Great Britain, Ireland, Italy (mainland), Moldova, Russia, Slovakia, Slovenia, Sweden, Switzerland, Ukraine; INPN: no data; additional data from Psyl'list: Caucasus, Georgia, Hungary, Kazakhstan, Mongolia, Romania, Slovenia, Spain, Turkey.

COMMENTS

Description in Hodkinson & White (1979a), Conci & Tamanini (1988) and Ossiannilsson (1992). Biology in Ossiannilsson (1992) and Lauterer (1999). Host-plants: several species of *Rhamnus* (Rhamnaceae).

*Cacopsylla rhododendri* (Puton, 1871)

(Fig. 1B)

*Psylla rhododendri* Puton, 1871: 436.

MATERIAL EXAMINED. — **France.** Alpes-Maritimes, Valdeblore, M09-BOR2000-T7-M1, 1♀ (MNHN); same locality, M09-BOR2000-T8-M2, 3♂ (MNHN); **France.** Alpes-Maritimes, Saorge, M10-CAI1400-T7-M2, 2♂ (BMNH); Alpes-Maritimes, Tende, Val de Minière, 1600 m, 10.VII.1994, 3♂, 1♀, I. Malenovský (MMBC); Alpes-Maritimes, Bolène-Vesubie, massif de la cime du Diable, 1800-2600 m, 28.VIII.1995, 9♂, 6♀, I. Malenovský (MMBC); Alpes-Maritimes, La Brigue, French-Italian border between Mt Grai (2013 m) and Cime de Marte (2135 m), 21.VIII.1996, 2♂, 1♀, I. Malenovský (MMBC).

DISTRIBUTION. — Fauna Europaea: Austria, Belgium, Finland, France, Italy, Moldova, Romania, Switzerland, Ukraine; INPN: no data; additional data from Psyl'list: "Czechoslovakia", Germany, Japan, Korea, Russia.

COMMENTS

Description in Dobreanu & Manolache (1962) and Ossiannilsson (1992). Biology in Ossiannilsson (1992) and Conci *et al.* (1993). Host-plants: several species of *Rhododendron* (Ericaceae).

*Cacopsylla saliceti*

(Foerster, 1848)

*Psylla saliceti* Foerster, 1848: 79.

MATERIAL EXAMINED. — **France.** Alpes-Maritimes, Valdeblore, M09-BOR2000-T8-M2, 1♂ (MNHN); Alpes-Maritimes, Saint-Dalmas-le-Selvage, M09-SES2000-T1-M2, 1♂ (BMNH); Alpes-

Maritimes, Breil-sur-Roya, Authion, vacherie de l'Ortiguier, 1960 m, 43°59'40.6284"N-7°26'1.0536"E, on *Larix decidua*, 20.VII.2009, C. Cocquempot (CBGP), 7 adults; Alpes-Maritimes, Lantosque, Piste du col du Fort, 1770 m, 44°0'43.9668"N-7°14'45.3546"E, 13.VII.2009, on *Larix decidua* Mill., C. Cocquempot (CBGP), 8 adults; Alpes-Maritimes, Lantosque, Col d'Andrion (Col du Fort), 1990 m, 44°1'3.8202"N-7°15'12.1206"E, 13.VII.2009, on *Larix decidua* Mill., C. Cocquempot (CBGP), 1 adult; Alpes-Maritimes, Saint-Dalmas-de-Tende, Pas de La Nauque, 2130 m, 44°3'6.4722"N-7°31'21.5148"E, 17.VII.2009, on *Larix decidua* Mill., C. Cocquempot (CBGP), 2 adults.

*Cacopsylla saliceti* (Foerster, 1848)? Alpes-Maritimes, Valdeblore, Col de Salèse, coniferous forest, 2058 m, 44°8'14.424"N-7°14'13.1274"E, 10.VI.09-24.VI.09 (Malaise trap, M09-BOR2000-T1-M1), 1♀ (MNHN).

DISTRIBUTION. — Fauna Europaea: Austria, Belgium, Bulgaria, Czech Republic, France, Germany, Great Britain, Ireland, Italy (mainland + Sicily), Moldova, Poland, Romania, Slovakia, Spain, Switzerland, The Netherlands, Ukraine; INPN: no data; additional data from Psyl'list: Georgia, Hungary, Iran, Slovenia, Turkey.

COMMENTS

Description in Hodkinson & White (1979a). Biology in Conci *et al.* (1993) and Lauterer (1999). Host-plants: several species of *Salix* (Salicaceae).

*Cacopsylla sorbi* (Linnaeus, 1767)

*Chermes sorbi* Linnaeus, 1767: 738.

MATERIAL EXAMINED. — **France.** Alpes-Maritimes, Moulinet, Col de Turini, piste de Gasta-Fume, 1625 m, 43°58'27.1482"N-7°23'42.7374"E, 04.VII.2008, C. Cocquempot (CBGP), 1 adult; same data except 02.VII.2008, C. Cocquempot (CBGP), 127 adults; Alpes-Maritimes, Moulinet, Col de Turini, 1610 m, 43°58'37.56"N-7°23'30.7782"E, 09.VII.2009, on herbaceous plants, C. Cocquempot (CBGP), 40 adults; Alpes-Maritimes, Lantosque, Col d'Andrion (Col du Fort), 1990 m, 44°1'3.8202"N-7°15'12.1206"E, 13.VII.2009, on *Sorbus aucuparia* L., C. Cocquempot (CBGP), 41 adults; same data except on *Larix decidua* Mill., C. Cocquempot (CBGP), 2 adults; Alpes-Maritimes, Saint-Dalmas-de-Tende, GR du refuge des Merveilles, 1800 m, 44°3'33.0444"N-7°28'46.5492"E, 18.VII.2009, C. Cocquempot (CBGP), 35 adults; same data except Lac de la Minière, 1565 m, 44°4'9.9546"N-7°30'37.641"E, 17.VII.2009, on *Salix* sp., C. Cocquempot (CBGP), 7 adults; same data except GR du Pas de la Nauque, 1536 m, 44°4'6.7476"N-7°30'50.6232"E, 17.VII.2009, on *Larix decidua* Mill., C. Cocquempot (CBGP), 136 adults; Alpes-Maritimes, Saint-Dalmas-de-Tende, Pas de La Nauque, 2130 m, 44°3'6.4722"N-7°31'21.5148"E, 17.VII.2009, on *Larix decidua* Mill., C. Cocquempot (CBGP), 2 adults; Alpes-Maritimes, Saint-Dalmas-de-Tende, Lac de Trem, 2270 m, 44°3'5.0472"N-7°26'36.8622"E, 18.VII.2009, C. Cocquempot (CBGP), 4 adults; Breil-sur-Roya, Authion, vacherie de l'Ortiguier, 1960 m, 43°59'40.6284"N-7°26'1.0536"E, 20.VII.2009, on *Larix decidua* Mill., C. Cocquempot (CBGP), 4 adults; Alpes-de-Haute-Provence, Colmars-les-Alpes, Piste de Ratéry, 1670 m, 44°11'16.5804"N-6°39'15.4548"E, 10.VII.2011, on *Sorbus aucuparia* L., C. Cocquempot (CBGP), 14 adults; Alpes-Maritimes, Tende, Val de Minière, 1600 m, 10.VII.1994, 3♂, 10♀, I. Malenovský (MMBC); Alpes-Maritimes, Bolène-Vesubie, massif de la cime du Diable, 1800-2600 m, 28.VIII.1995, 3♂, 1♀, I. Malenovský (MMBC).



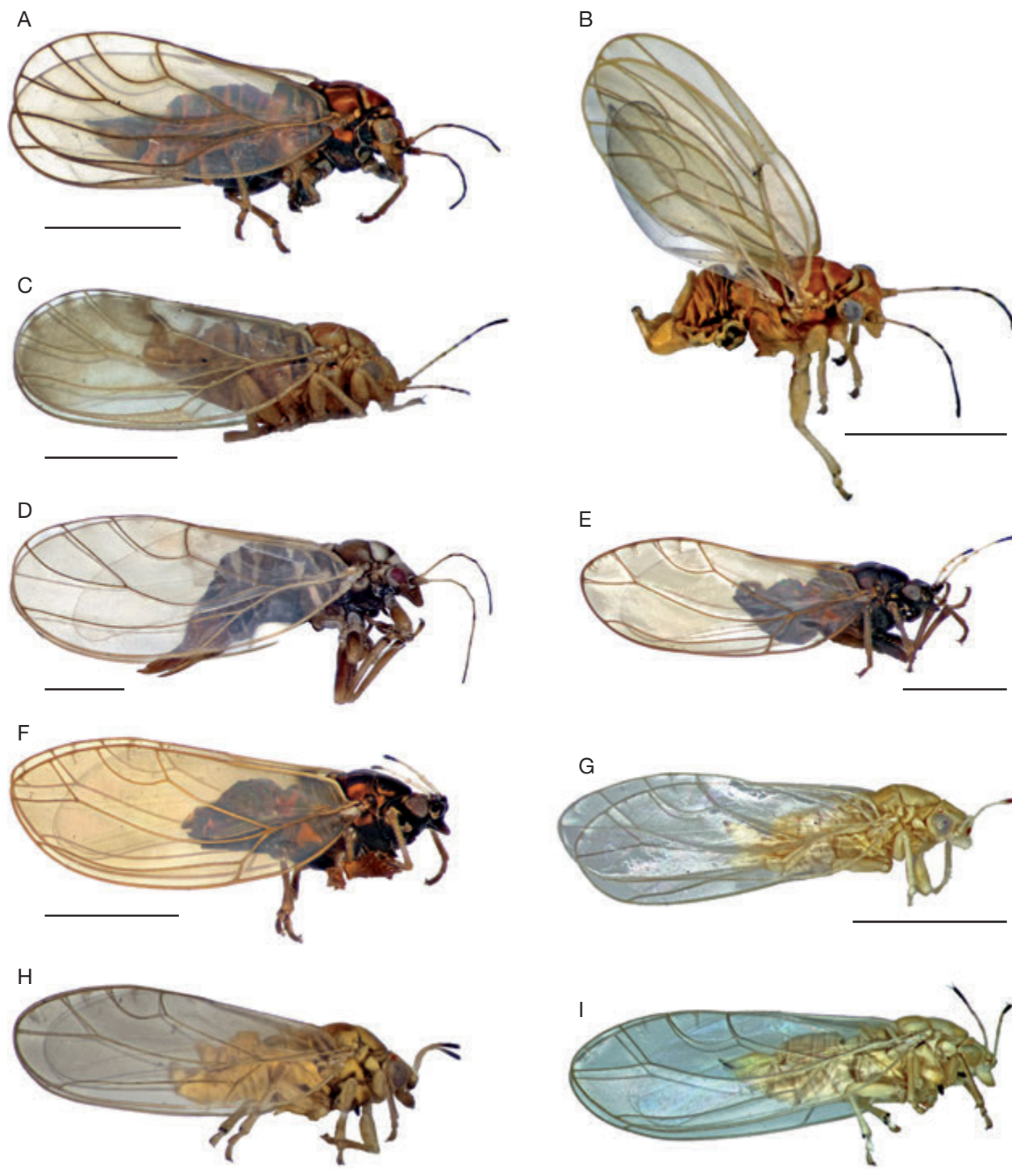


FIG 1. — Some noteworthy psyllid species collected in the Mercantour National Park. Species preceded by an asterisk are new for France. **A**, *\*Cacopsylla propinqua* (Schaefer, 1949); **B**, *Cacopsylla rhododendri* (Puton, 1871); **C**, *\*Cyamophila prohaskai* (Priesner, 1927); **D**, *Psylla fusca* (Zetterstedt, 1828); **E**, *Bactericera bohemica* (Šulc, 1913); **F**, *Bactericera femoralis* (Foerster, 1848); **G**, *Trioza brachyceraea* Hodkinson & White, 1979 = *Trioza (Trioza) rapisardai* Conci & Tamanini, 1984 syn. nov.; **H**, *Trioza cerastii* (Linnaeus, 1758); **I**, *\*Trioza flixiana* Burckhardt & Lauterer, 2002. Scale bars: 1 mm.

DISTRIBUTION. — Fauna Europaea: Austria, Belgium, Bulgaria, Czech Republic, Denmark, Finland, France, Germany, Great Britain, Ireland, Italy, Norway, Poland, Russia, Slovakia, Sweden, Switzerland, Ukraine; INPN: no data; additional data from Psyl'list: North America, Slovenia.

#### COMMENTS

Description in Hodkinson & White (1979a) and Ossianilsson (1992). Biology in Ossianilsson (1992), Conci *et al.* (1993) and Lauterer (1999). Host-plants: *Sorbus aucuparia* L. and *Sorbus amurensis* Koehne (Rosaceae).



*Cacopsylla visci* (Curtis, 1835)

*Psylla visci* Curtis, 1835: unpaginated, with plate 565.

MATERIAL EXAMINED. — **France.** Alpes-Maritimes, Saint-Martin-Vésubie, M09-BOR1400-T1-M2, 1 ♀ (MNHN); same locality, M09-BOR1400-T8-M2, 1 ♂ (MNHN); Alpes-Maritimes, Saorge, M10-CAI1400-T1-M1, 1 ♂ (BMNH); same locality, M10-CAI1400-T3-M2, 1 ♀ (BMNH).

DISTRIBUTION. — Fauna Europaea: Austria, Belgium, Czech Republic, France, Germany, Great Britain, Italy, Moldova, Poland, Slovakia, Switzerland, Ukraine; INPN: no data; additional data from Psyllist: Bulgaria, Caucasus, Hungary, Iraq, Japan, Morocco, Slovenia.

COMMENTS

Description in Hodkinson & White (1979a). Biology in Conci *et al.* (1993) and Lauterer (1999). Host-plants: *Viscum album* L. (Santalaceae) and *Loranthus europaeus* Jacq. (Loranthaceae).

*Cacopsylla zetterstedti* (Thomson, 1877)

*Chermes zetterstedti* Thomson, 1877: 832.

MATERIAL EXAMINED. — **France.** Alpes-de-Haute-Provence, Fours, Bayasse, 1790 m, 44°18'39.366"N-6°44'23.0022"E, 11.VII.2011, on *Hippophae rhamnoides* L. [= *Elaeagnus rhamnoides* (L.) A. Nelson], C. Cocquempot (CBGP), 53 adults.

DISTRIBUTION. — Fauna Europaea: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Great Britain, Italy, Norway, Poland, Slovakia, Sweden, Switzerland, The Netherlands; INPN: no data; additional data from Psyllist: Caucasus, Georgia, Russia.

COMMENTS

Description in Hodkinson & White (1979a) and Ossianilsson (1992). Biology in Conci *et al.* (1993) and Lauterer (1999). Host-plant: *Elaeagnus rhamnoides* (L.) A. Nelson.

Genus *Cyamophila* Loginova, 1976

*Cyamophila probaskai* (Priesner, 1927)  
(Fig. 1C)

*Psylla probaskai* Priesner, 1927: 263.

MATERIAL EXAMINED. — **France.** Alpes-Maritimes, Saint-Dalmas-le-Selvage, M09-SES2000-T8-M2, 1 ♂ (MNHN).

DISTRIBUTION. — Fauna Europaea: Austria, Italy, Switzerland; INPN: no data; additional data from Psyllist: no additional data.

COMMENTS

Description in Conci & Tamanini (1986b), Conci & Tamanini (1989a) and Hodkinson & Hollis (1987). Biology in Conci & Tamanini (1989a) and Conci *et al.* (1993). Host-plant: *Anthyllis vulneraria* L. (Fabaceae). New for France.

Genus *Livilla* Curtis, 1835

*Livilla pyrenaea* (Mink, 1859)

*Arytaina pyrenaea* Mink, 1859: 430.

MATERIAL EXAMINED. — **France.** Alpes-Maritimes, Saorge, M10-CAI1400-T1-M1, 8 ♂, 7 ♀ (MNHN); same locality, M10-CAI1400-T5-M1, 1 ♂, 4 ♀ (MNHN); same locality, M10-CAI1400-T1-M2, 4 ♂, 10 ♀ (MNHN); same locality, M10-CAI1400-T4-M2, 1 ♀ (MNHN); same locality, M10-CAI2000-T1-M1, 11 ♂, 8 ♀ (MNHN), 2 ♂, 2 ♀ (NHMB); same locality, M10-CAI2000-T3-M1, 1 ♀ (MNHN); same locality, M10-CAI2000-T4-M1, 1 ♂, 3 ♀ (MNHN); same locality, M10-CAI2000-T5-M1, 1 ♂, 1 ♀ (MNHN); same locality, M10-CAI2000-T6-M1, 5 ♂, 2 ♀ (BMNH); same locality, M10-CAI2000-T1-M2, 29 ♂, 10 ♀ (MNHN), 2 ♂, 2 ♀ (NHMB); same locality, M10-CAI2000-T4-M2, 1 ♂, 1 ♀ (MNHN); same locality, M10-CAI2000-T5-M2, 2 ♂, 1 ♀ (MNHN); M10-CAI2000-T6-M2, 1 ♂, 2 ♀ (MNHN); Alpes-Maritimes, Saorge, Route du Caïros, 604 m, 43°59'49.1064"N- 7°30'22.9602"E, 19.VII.2009, on Fabaceae, C. Cocquempot (CBGP), 44 adults; Alpes-de-Haute-Provence, Colmars-les-Alpes, Chemin de la forêt Saint-Jean, 1310 m, 44°10'45.6852"N-6°37'56.7078"E, 13.VII.2011, on Fabaceae, C. Cocquempot (CBGP), 17 adults; Alpes-de-Haute-Provence, Entraunes, Piste de la Cascade de l'Aiglier, 1420 m, 44°12'24.9732"N-6°44'33.4782"E, 14.VII.2011, on Fabaceae, C. Cocquempot (CBGP), 9 adults.

DISTRIBUTION. — Fauna Europaea: France, Italy, Spain; INPN: no data; additional data from Psyllist: Algeria.

COMMENTS

Description in Hodkinson & White (1979a) and Hodkinson & Hollis (1987). Biology in Conci & Tamanini (1988) and Conci *et al.* (1993). Host-plants: several species of *Genista* (Fabaceae).

*Livilla variegata* (Löw, 1881)

*Floria variegata* Löw, 1881: 261.

MATERIAL EXAMINED. — **France.** Alpes-Maritimes, Saint-Dalmas-le-Selvage, M09-SES1400-T1-IN, 1 ♂, 1 ♀ (MNHN); same locality, M09-SES1400-T8-IN, 1 ♀ (MNHN); same locality, M09-SES1400-T7-M1, 4 ♀ (BMNH); same locality, M09-SES1400-T1-M2, 1 ♀ (MNHN); Alpes-Maritimes, Saorge, M10-CAI1400-T4-M1, 1 ♀ (MNHN); Alpes-Maritimes, Lantosque, Granges de la Brasque, 1690 m, 44°0'28.6704"N-7°14'56.9106"E, 09.VII.2009, C. Cocquempot (CBGP), 25 adults; Alpes-Maritimes, Moulinet, Col de Turini, piste de Gasta-Fume, 1625 m, 43°58'27.1482"N-7°23'42.7374"E, 02.VII.2008, C. Cocquempot (CBGP), 3 adults; Alpes-Maritimes, Moulinet, Col de Turini, 1610 m, 43°58'37.56"N-7°23'30.7782"E, 09.VII.2009, on herbaceous plants, C. Cocquempot (CBGP), 1 adult; Alpes-Maritimes, Saint-Dalmas-de-Tende, GR du Pas de la Nauque, 1536 m, 44°4'6.7476"N-7°30'50.6232"E, 17.VII.2009, on Fabaceae, C. Cocquempot (CBGP), 8 adults; Alpes-Maritimes, Tende, Les Mesches, 1450 m, 10.VII.1994, 1 ♀, I. Malenovský (MMBC).

DISTRIBUTION. — Fauna Europaea: Austria, Czech Republic, France, Germany, Great Britain, Italy, Romania, Slovenia, Spain, Switzerland; INPN: no data; additional data from Psyllist: Bosnia-Herzegovina, Canada (Newfoundland), Hungary, Slovakia.

## COMMENTS

Description in Hodkinson & Hollis (1980) and Hodkinson & Hollis (1987). Biology in Conci *et al.* (1993) and Malenovský & Kment (2004). Host-plants: *Laburnum alpinum* (Mill.) Bercht. & J. Presl and *Laburnum anagyroides* Medik. (Fabaceae).

Genus *Psylla* Geoffroy, 1762

*Psylla alni* (Linnaeus, 1758)

*Chermes alni* Linnaeus, 1758: 454.

MATERIAL EXAMINED. — **France.** Alpes-de-Haute-Provence, Enchastrayes, La Rente, 1702 m, 44°21'14.022"N-6°41'56.778"E, 29.VIII.2012, on *Alnus* sp., J.-C. Streito (CBGP), 8 adults; Alpes-de-Haute-Provence, Entraunes, Oustamura, 1360 m, 44°11'37.8528"N-6°44'27.6144"E, 14.VII.2011, on *Alnus* sp., C. Cocquempot (CBGP), 1 adult; Alpes-Maritimes, Lantosque, Saint-Colomban, Camari, 897 m, 43°57'7.9956"N-7°20'52.5906"E, 04.VII.2008, on *Alnus* sp., C. Cocquempot (CBGP), 3 adults; Alpes-de-Haute-Provence, Entraunes, Le Clôt, 1324 m, 44°11'47.0724"N-6°44'40.9878"E, 11.VII.2011, C. Cocquempot (CBGP), 18 adults; Alpes-de-Haute-Provence, Fours, Tourbière des Girards, 1800 m, 44°18'41.8314"N-6°44'7.3566"E, 01.IX.2012, J.-C. Streito (CBGP), 3 adults.

DISTRIBUTION. — Fauna Europaea: Austria, Belgium, Bulgaria, Czech Republic, Denmark, Finland, France, Germany, Great Britain, Ireland, Italy (mainland + Sardinia), Moldova, Norway, Poland, Romania, Russia, Slovakia, Spain, Sweden, Switzerland, The Netherlands, Ukraine; INPN: no data; additional data from Psyllist: Canada (Alberta, British Columbia), China, Greenland, Hungary, Japan, Korea, Slovenia, Taiwan, United States of America (Arizona, California, Idaho, Nevada, Oregon, Washington).

## COMMENTS

Description in Hodkinson & White (1979a) and Ossianilsson (1992). Biology in Ossianilsson (1992), Conci *et al.* (1993) and Lauterer (1998). Host-plants: several species of *Alnus* (Betulaceae).

*Psylla alpina* Foerster, 1848

*Psylla alpina* Foerster, 1848: 81.

MATERIAL EXAMINED. — **France.** Alpes-Maritimes, La Brigue, French-Italian border between Mt Grai (2013 m) and Cime de Marte (2135 m), 21.VIII.1996, 15♂, 6♀, I. Malenovský (MMBC).

DISTRIBUTION. — Fauna Europaea: Austria, Czech Republic, France, Germany, Italy, Poland, Romania, Switzerland, Ukraine; INPN: no data; additional data from Psyllist: Bulgaria, Slovenia.

## COMMENTS

Description in Dobreanu & Manolache (1962). Biology in Lauterer (1979) and Conci *et al.* (1993). Host-plant: *Alnus viridis* (Chaix) DC. (Betulaceae).

*Psylla buxi* (Linnaeus, 1758)

*Chermes buxi* Linnaeus, 1758: 454.

MATERIAL EXAMINED. — **France.** Alpes-Maritimes, Valdeblore, M09-BOR2000-T2-M1, 1♂ (MNHN); Alpes-Maritimes, Saint-Dalmas-le-Selvage, M09-SES2000-T2-M1, 1♂ (BMNH); same locality, M09-SES2000-T2-M2, 3♂, 1♀ (BMNH); same locality, M09-SES1400-T1-M2, 1♀ (MNHN); Alpes-Maritimes, Saorge, Forêt de Caïros, M10-CAI1400-T1-M2, 1♀ (MNHN); same locality, M10-CAI2000-T1-M1, 2♂ (MNHN); same locality, M10-CAI2000-T3-M1, 1♀ (MNHN); same locality, M10-CAI2000-T1-M2, 1♂, 2♀ (MNHN); Alpes-de-Haute-Provence, Entraunes, Le Clôt, 1324 m, 44°11'47.0724"N-6°44'40.9878"E, 11.VII.2011, C. Cocquempot (CBGP), 1 adult; Alpes-de-Haute-Provence, Fours, Col de la Petite-Cayolle, 2400 m, 44°15'32.9286"N-6°44'29.709"E, 09.VII.2011, C. Cocquempot (CBGP), 6 adults; Alpes-de-Haute-Provence, Entraunes, Piste de la Cascade de l'Aiglier, 1420 m, 44°12'24.9732"N-6°44'33.4782"E, 14.VII.2011, on *Buxus* sp., C. Cocquempot (CBGP), 9 adults; Alpes-Maritimes, Saorge, Route du Caïros, 604 m, 43°59'49.1064"N-7°30'22.9602"E, 20.VII.2009, on *Buxus* sp., C. Cocquempot (CBGP), 3 adults.

DISTRIBUTION. — Fauna Europaea: Austria, Belgium, Bulgaria, Czech Republic, Denmark, France, Germany, Great Britain, Ireland, Italy, Moldova, Norway, Poland, Romania, Slovakia, Spain, Sweden, Switzerland, The Netherlands, Ukraine; INPN: no data; additional data from Psyllist: Canada (Newfoundland), Hungary, Slovenia, United States of America (Hawaii).

## COMMENTS

Description in Hodkinson & White (1979a) and Ossianilsson (1992). Biology in Ossianilsson (1992), Conci *et al.* (1993) and Lauterer (1998). Host-plants: several species of *Buxus* (Buxaceae).

*Psylla fusca* (Zetterstedt, 1828)  
(Fig. 1D)

*Chermes fusca* Zetterstedt, 1828: 552.

MATERIAL EXAMINED. — **France.** Alpes-de-Haute-Provence, Entraunes, Le Clôt, 1324 m, 44°11'47.0724"N-6°44'40.9878"E, 11.VII.2011, C. Cocquempot (CBGP), 3 adults.

DISTRIBUTION. — Fauna Europaea: Austria, Czech Republic, Denmark, Finland, France, Germany, Italy, Moldova, Norway, Poland, Romania, Russia, Slovakia, Sweden, Switzerland, Ukraine; INPN: no data; additional data from Psyllist: Georgia, Latvia, Slovenia.

## COMMENTS

Description in Ossianilsson (1992). Biology in Ossianilsson (1992), Conci *et al.* (1993) and Lauterer (1998). Host-plants: *Alnus incana* (L.) Moench (Betulaceae).

Genus *Spanioneura* Foerster, 1848

*Spanioneura fonscolombii* Foerster, 1848

*Spanioneura fonscolombii* Foerster, 1848: 94.

MATERIAL EXAMINED. — **France.** Alpes-Maritimes, Saint-Martin-Vésubie, M09 BOR1400-T1-M2, 2♂ (MNHN); same locality, M09-BOR1400-T2-M2, 1♂ (MNHN); same locality, M09-BOR1400-T2-M1, 1♂ (MNHN); Alpes-Maritimes, Valdeblore, M09-SES2000-T1-M1, 1♀ (MNHN); same locality, M09-

SES2000-T2-M1, 1 ♀ (MNHN); same locality, M09-SES2000-T2-M2, 1 ♂ (MNHN); Alpes-Maritimes, Saint-Dalmas-le-Selvage, M09-SES2000-T1-M1, 1 ♀ (MNHN); same locality, M09-SES2000-T2-M1, 4 ♂, 4 ♀ (MNHN); same locality, M09-SES2000-T2-M2, 3 ♂, 1 ♀ (MNHN); Alpes-Maritimes, Saorge, M10-CAI1400-T1-M1, 1 ♀ (MNHN); same locality, M10-CAI1400-T3-M1, 2 ♂, 1 ♀ (MNHN); same locality, M10-CAI1400-T1-M2, 2 ♂ (MNHN); same locality, M10-CAI1400-T3-M2, 1 ♂, 3 ♀ (MNHN); Alpes-Maritimes, Saorge, M10-CAI2000-T1-M1, 1 ♀ (MNHN); same locality, M10-CAI2000-T2-M1, 1 ♀ (MNHN); same locality, M10-CAI2000-T3-M, 1 ♂, 2 ♀ (MNHN); same locality, M10-CAI2000-T5-M1, 1 ♂ (MNHN); same locality, M10-CAI2000-T1-M2, 2 ♂, 1 ♀ (BMNH); same locality, M10-CAI2000-T3-M2, 2 ♂ (MNHN); same locality, M10-CAI2000-T4-M2, 1 ♀ (MNHN); same locality, M10-CAI2000-T3-IN, 1 ♀ (MNHN); Breil-sur-Roya, Authion, vacherie de l'Ortiguier, 1960 m, 43°59'40.6284"N-7°26'1.0536"E, 20.VII.2009, on *Larix decidua* Mill., C. Cocquempot (CBGP), 1 adult; Alpes-Maritimes, Moulinet, Col de Turini, 1610 m, 43°58'37.56"N-7°23'30.7782"E, 09.VII.2009, on herbaceous plants, C. Cocquempot (CBGP), 3 adults; Alpes-Maritimes, Lantosque, Granges de la Brasque, 1690 m, 44°0'28.6704"N-7°14'56.9106"E, 09.VII.2009, on *Salix* sp., C. Cocquempot (CBGP), 1 adult; Alpes-Maritimes, Lantosque, Col d'Andrion (Col du Fort), 1990 m, 44°1'3.8202"N-7°15'12.1206"E, 13.VII.2009, on *Larix decidua* Mill., C. Cocquempot (CBGP), 1 adult; Alpes-de-Haute-Provence, Entraunes, Piste de la Cascade de l'Aiglier, 1420 m, 44°12'24.9732"N-6°44'33.4782"E, 14.VII.2011, on *Buxus* sp., C. Cocquempot (CBGP), 5 adults; Alpes-de-Haute-Provence, Fours, Col de la Petite-Cayolle, 2400 m, 44°15'32.9286"N-6°44'29.709"E, 09.VII.2011, C. Cocquempot (CBGP), 1 adult; Alpes-Maritimes, Saint-Dalmas-de-Tende, Lac de la Muta, 2365 m, 44°2'57.2742"N-7°26'5.694"E, 18.VII.2009, C. Cocquempot (CBGP), 6 adults; Alpes-Maritimes, Saorge, Route du Caïros, 604 m, 43°59'49.1064"N-7°30'22.9602"E, 20.VII.2009, on *Buxus* sp., C. Cocquempot (CBGP), 2 adults; Alpes-Maritimes, Saint-Dalmas-de-Tende, Lac de Trem, 2270 m, 44°3'5.0472"N-7°26'36.8622"E, 18.VII.2009, C. Cocquempot (CBGP), 9 adults.

DISTRIBUTION. — Fauna Europaea: Belgium, France, Great Britain, Italy, Luxembourg, Spain, Switzerland; INPN: no data; additional data from Psyllist: Ireland, Slovenia, United States of America (Connecticut).

#### COMMENTS

Description in Hodkinson & White (1979a). Biology in Conci *et al.* (1993). Host-plant: *Buxus sempervirens* L. (Buxaceae).

Family TRIOZIDAE Löw, 1879

Genus *Bactericera* Puton, 1876

*Bactericera bohémica* (Šulc, 1913)

(Fig. 1E)

*Trioza bohémica* Šulc, 1913: 34.

MATERIAL EXAMINED. — France. Alpes-Maritimes, Lantosque, Col d'Andrion (Col du Fort), 1990 m, 44°1'3.8202"N-7°15'12.1206"E, 13.VII.2009, on *Epilobium angustifolium* L., C. Cocquempot (CBGP), 1 adult; Alpes-Maritimes, Lantosque, Granges de la Brasque, 1690 m, 44°0'28.6704"N-7°14'56.9106"E, 13.VII.2009, C. Cocquempot (CBGP), 2 adults.

DISTRIBUTION. — Fauna Europaea: Austria, Bulgaria, Czech Republic, Finland, France, Germany, Italy, Norway, Poland, Russia, Slovakia, Sweden, Switzerland, Ukraine; INPN: no data; additional data from Psyllist: Canada, Caucasus, Estonia, Romania.

#### COMMENTS

Description in Šulc (1913), Conci & Tamanini (1985) and Ossiannilsson (1992). Biology in Ossiannilsson (1992) and Conci *et al.* (1996). Host-plants: *Geum montanum* L. and *G. rivale* L. (Rosaceae).

*Bactericera curvatinervis*

(Foerster, 1848)

*Trioza curvatinervis* Foerster, 1848: 83.

MATERIAL EXAMINED. — France. Alpes-Maritimes, Saorge, M10-CAI2000-T7-M1, 1 ♀ (MNHN); Alpes-Maritimes, Moulinet, Col de Turini, piste de Gasta-Fume, 1625 m, 43°58'27.1482"N-7°23'42.7374"E, 02.VII.2008, C. Cocquempot (CBGP), 5 adults; Alpes-Maritimes, Lantosque, Col d'Andrion (Col du Fort), 1990 m, 44°1'3.8202"N-7°15'12.1206"E, 13.VII.2009, on *Epilobium angustifolium* L., C. Cocquempot (CBGP), 1 adult.

DISTRIBUTION. — Fauna Europaea: Austria, Belgium, Bulgaria, Czech Republic, Finland, France, Germany, Italy, Norway, Poland, Romania, Russia, Slovakia, Sweden, Switzerland; INPN: no data; additional data from Psyllist: Caucasus, Georgia, Great Britain, Hungary, Ireland, Japan, Lebanon, Slovenia.

#### COMMENTS

Description in Hodkinson & White (1979a) and Ossiannilsson (1992). Biology in Ossiannilsson (1992) and Conci *et al.* (1996). Host-plants: several species of *Salix* (Salicaceae).

*Bactericera femoralis* (Foerster, 1848)

(Fig. 1F)

*Trioza femoralis* Foerster, 1848: 86.

MATERIAL EXAMINED. — France. Alpes-Maritimes, Saint-Dalmas-le-Selvage, M09-SES2000-T1-IN, 1 ♀ (MNHN); Alpes-Maritimes, Saorge, Malaise trap, M10-CAI2000-T5-M1, 1 ♂ (MNHN); same locality, M10-CAI2000-T6-M1, 1 ♀ (BMNH); same locality, M10-CAI2000-T7-M1, 1 ♂, 4 ♀ (MNHN), 1 ♂ (BMNH); Alpes-Maritimes, Bolène-Vesubie, massif de la cime du Diable, 1800-2600 m, 28.VIII.1995, 3 ♂, 4 ♀, I. Malenovský (MMBC); Alpes-Maritimes, La Brigue, French-Italian border between Mt Grai (2013 m) and Cime de Marte (2135 m), 21.VIII.1996, 1 ♂, I. Malenovský (MMBC).

DISTRIBUTION. — Fauna Europaea: Austria, Belgium, Czech Republic, Finland, France, Germany, Italy, Moldova, Norway, Poland, Romania, Russia, Slovakia, Sweden, Switzerland, The Netherlands, Ukraine; INPN: no data; additional data from Psyllist: Bulgaria, Caucasus, Georgia, Slovenia, Turkey.

#### COMMENTS

Description in Ossiannilsson (1992). Biology in Bin (1972). Host-plants: several species of *Alchemilla* (Rosaceae).

*Bactericera parastricola*

Conci, Ossiannilsson & Tamanini, 1988

*Bactericera parastricola* Conci, Ossiannilsson & Tamanini, 1988: 226.



MATERIAL EXAMINED. — **France**. Alpes-Maritimes, Saint-Dalmas-le-Selvage, «Vallon de Restefond», alpine meadow, 2500 m, 16.VI.1994 (Malaise trap), C. Cocquempot (CBGP), 1♂.

DISTRIBUTION. — Fauna Europaea: Czech Republic, Italy, Romania, Sweden, Switzerland; INPN: no data; additional data from Psyl'list: Austria, Poland.

#### COMMENTS

Description in Conci *et al.* (1988) and Ossiannilsson (1992). Description of the fifth instar immature in Burckhardt & Lauterer (1997). Biology in Conci *et al.* (1988), Ossiannilsson (1992) and Lauterer & Malenovský (2002). Host-plants: several species of *Salix* (Salicaceae). New for France.

Genus *Eryngiofaga* Klimaszewski, 1968

*Eryngiofaga* cf. *refuga* (Loginova, 1966)

*Trioza refuga* Loginova, 1966: 28.

MATERIAL EXAMINED. — **France**. Alpes-Maritimes, Saorge, M10-CAI2000-T2-M2, 1♂ (MNHN).

DISTRIBUTION. — Fauna Europaea: No data; INPN: no data; additional data from Psyl'list: Kazakhstan, Russia (West Siberia).

#### COMMENTS

Description in Loginova (1966). No data on biology (reported from the subalpine region of Kazakhstan: 2000-2500 m). Host-plant unknown. New for France. The single male at hand resembles *Eryngiophaga refuga* from Kazakhstan and Siberia. However, more material is required to decide if the French population is conspecific with those from Kazakhstan and Siberia.

Genus *Trichohermes* Kirkaldy, 1904

*Trichohermes walkeri* (Foerster, 1848)

*Trioza walkeri* Foerster, 1848: 88.

MATERIAL EXAMINED. — **France**. Alpes-Maritimes, Saint-Dalmas-le-Selvage, M09-SES1400-T8-M2, 1♀ (MNHN).

DISTRIBUTION. — Fauna Europaea: Austria, Belgium, Czech Republic, Denmark, France, Germany, Great Britain, Italy, Luxembourg, Moldova, Poland, Romania, Slovakia, Spain, Sweden, Switzerland, Ukraine; INPN: no data; additional data from Psyl'list: Estonia, Finland, Hungary, Latvia, Slovenia.

#### COMMENTS

Description in Hodkinson & White (1979a) and Ossiannilsson (1992). Biology in Ossiannilsson (1992) and Conci *et al.* (1996). Host-plants: several species of *Rhamnus* (Rhamnaceae).

Genus *Trioza* Foerster, 1848

*Trioza abdominalis* Flor, 1861

*Trioza abdominalis* Flor, 1861: 502.

MATERIAL EXAMINED. — **France**. Alpes-Maritimes, Saint-Dalmas-le-Selvage, M09-SES1400-T7-M2, 1♂, 1♀ (BMNH); Alpes-Maritimes, Saorge, M10-CAI1400-T1-M2, 1♀ (MNHN); same locality, M10-CAI2000-T7-M1, 4♂, 2♀ (MNHN); Alpes-Maritimes, Bolène-Vesubie, massif de la cime du Diable, 1800-2600 m, 28.VIII.1995, 1♂, 1♀, I. Malenovský (MMBC).

DISTRIBUTION. — Fauna Europaea: Austria, Czech Republic, Finland, France, Germany, Great Britain, Italy (mainland + Sicily), Norway, Poland, Russia, Slovakia, Spanish (mainland + Canary Is.), Sweden, Switzerland; INPN: no data; additional data from Psyl'list: Estonia, Korea, Latvia, Mongolia, Slovenia.

#### COMMENTS

Description in Hodkinson & White (1979a) and Ossiannilsson (1992). Biology in Ossiannilsson (1992) and Conci *et al.* (1996). Host-plants: several *Achillea* and *Chrysanthemum* spp. (Asteraceae).

*Trioza anthrisci* Burckhardt, 1986

*Trioza anthrisci* Burckhardt, 1986: 425.

MATERIAL EXAMINED. — **France**. Alpes-Maritimes, Saint-Martin-Vésubie, M09-BOR1400-T2-M1, 2♂ (MNHN).

DISTRIBUTION. — Fauna Europaea: Austria, Czech Republic, Finland, France, Germany, Italy, Norway, Poland, Romania, Russia, Slovakia, Sweden, Switzerland; INPN: no data; additional data from Psyl'list: Slovenia, Turkey, Ukraine.

#### COMMENTS

Description in Burckhardt (1986). Biology in Conci *et al.* (1996). Host-plants: *Anthriscus sylvestris* (L.) Hoffm., *Angelica sylvestris* L., *Chaerophyllum hirsutum* subsp. *villarsii* (Koch) Brique and *Heracleum sphondylium* L. (Apiaceae).

*Trioza brachyceraea*

Hodkinson & White, 1979  
(Fig. 1G)

*Trioza brachyceraea* Hodkinson & White, 1979: 61; holotype male, France: Lozère, Gorges du Tarn, 25.V.1977 – *Genista hispanica* (I. M. White), (BMNH, slide mounted, examined).

*Trioza* (*Trioza*) *rapisardai* Conci & Tamanini, 1984: 201; holotype male, Italy: Piedmont, Susa Valley, near Cesana Torinese, 1330-1550 m, 1.VII.1984, *Laserpitium siler* (C. Conci) (Museo Civico di Storia Naturale di Milano, dry mounted, not examined). N. syn.

MATERIAL EXAMINED. — **France**. Alpes-Maritimes, Saint-Martin-Vésubie, M09-BOR1400-T7-M1, 1♀ (MNHN); Alpes-Maritimes, Saint-Dalmas-le-Selvage, M09-SES1400-T1-M2, 1♂, 3♀ (MNHN); same locality, M09-SES1400-T8-M2, 1♀ (MNHN); Alpes-Maritimes, Saorge, M10-CAI2000-T7-M1, 1♀ (BMNH).



DISTRIBUTION. — Fauna Europaea: France (report for *T. brachycerae* [sic]), Italy (report for *T. rapisardai*); INPN: no data; additional data from Psyl'list: no additional data.

#### COMMENTS

Description in Hodkinson & White (1979b) and Conci & Tamanini (1984). Biology in Conci & Tamanini (1984) and Conci *et al.* (1996). Host-plant: *Laserpitium siler* L. and *Laserpitium gallicum* L. (Apiaceae). *Trioza brachycerae* has been known only from the holotype from France, while *T. rapisardai* was known from three places in the Susa Valley, Piedmont, in northern Italy. A comparison of the holotype of *T. brachycerae* with paratypes of *T. rapisardai* housed in the collections of the BMNH and MHNG showed that they are conspecific. We therefore consider *T. rapisardai* to be a junior subjective synonym of *T. brachycerae*.

#### *Trioza caesaris*

Burckhardt & Lauterer, 2002

*Trioza caesaris* Burckhardt & Lauterer, 2002: 22.

MATERIAL EXAMINED. — **France**. Alpes-Maritimes, Saint-Dalmas-le-Selvage, M09-SES2000-T8-M2, 1 ♂ (MNHN).

DISTRIBUTION. — Fauna Europaea: Austria, Czech Republic, France, Italy, Switzerland; INPN: observed in 1986 in Department of Haut-Rhin (data CardObs; square 10 kmL93E100N677); additional data from Psyl'list: no additional data.

#### COMMENTS

Description and biology in Burckhardt & Lauterer (2002a). Host-plant: *Cardamine hirsuta* L. (Brassicaceae).

#### *Trioza carpathica*

Dobreanu & Manolache, 1959

*Trioza apicalis carpathica* Dobreanu & Manolache, 1959: 295.

MATERIAL EXAMINED. — **France**. Alpes-Maritimes, Saint-Dalmas-le-Selvage, M09-SES1400-T1-IN, 1 ♀ (MNHN).

DISTRIBUTION. — Fauna Europaea: France, Romania; INPN: no data; additional data from Psyl'list: no additional data.

#### COMMENTS

Description in Dobreanu & Manolache (1959, 1962) and Burckhardt (1986). No data on biology. Host-plants: *Angelica archangelica* L. and *Daucus carota* L. (Apiaceae).

#### *Trioza centranthi* (Vallot, 1829)

*Psylla centranthi* Vallot, 1829: 106.

MATERIAL EXAMINED. — **France**. Alpes-de-Haute-Provence, Entraunes, Piste de la Cascade de l'Aiglier, 1420 m, 44°12'24.9732"N-6°44'33.4782"E, 14.VII.2011, on *Centranthus angustifolius* (Mill.) DC., C. Cocquempot (CBGP), 72 adults.

DISTRIBUTION. — Fauna Europaea: Austria, Belgium, Czech Republic, Denmark, France, Germany, Great Britain, Greece, Italy (mainland + Sardinia + Sicily), Malta, Moldova, Poland, Romania, Slovakia, Switzerland, Ukraine; INPN: observed in 2009 in Mercantour National Parc (data ATBI Mercantour; square 10 kmL93E106N633); additional data from Psyl'list: Algeria, Caucasus, Hungary, Morocco, Slovenia, ex-Yugoslavia.

#### COMMENTS

Description in Hodkinson & White (1979a), Ossiannilsson (1992) and Burckhardt & Lauterer (2006). Biology in Ossiannilsson (1992) and Conci *et al.* (1996). Host-plants: several species of *Centranthus* and *Valerianella*, as well as *Fedia cornucopiae* Gaertn. (Caprifoliaceae).

#### *Trioza cerastii* (Linnaeus, 1758)

(Fig. 1H)

*Chermes cerastii* Linnaeus, 1758: 454.

MATERIAL EXAMINED. — **France**. Alpes-Maritimes, Valdeblore, M09-BOR2000-T7-M1, 1 ♂ (MNHN); Alpes-Maritimes, Saint-Dalmas-le-Selvage, M09-SES2000-T7-M2, 1 ♀ (MNHN); Alpes-Maritimes, Saorge, M10-CAI2000-T5-M1, 1 ♀ (MNHN); same locality, M10-CAI2000-T6-M2, 1 ♂, 1 ♀ (BMNH); Alpes-Maritimes, Lantosque, Piste du col du Fort, 1770 m, 44°0'43.9668"N-7°14'45.3546"E, 13.VII.2009, on *Larix decidua* Mill., C. Cocquempot (CBGP), 17 adults; Alpes-Maritimes, Lantosque, Granges de la Brasque, 1690 m, 44°0'28.6704"N-7°14'56.9106"E, 13.VII.2009, C. Cocquempot (CBGP), 17 adults; Alpes-Maritimes, Bolène-Vesubie, massif de la cime du Diable, 1800-2600 m, 28.VIII.1995, 1 ♂, 3 ♀, I. Malenovský (MMBC); Alpes-Maritimes, La Brigue, French-Italian border between Mt Grai (2013 m) and Cime de Marte (2135 m), 21.VIII.1996, 1 ♀, I. Malenovský (MMBC).

DISTRIBUTION. — Fauna Europaea: Austria, Czech Republic, Denmark, Finland, France, Germany, Italy, Norway, Poland, Romania, Russia, Slovakia, Spain (Balearic Is.), Sweden, Switzerland, Ukraine; INPN: no data; additional data from Psyl'list: Bulgaria, China, Estonia, Hungary, Slovenia, Spain.

#### COMMENTS

Description in Ossiannilsson (1992). Biology in Ossiannilsson (1992) and Conci *et al.* (1996). Host-plants: several species of *Cerastium* (Caryophyllaceae).

#### *Trioza cirsii* Löw, 1881

*Trioza cirsii* Löw, 1881: 264.

MATERIAL EXAMINED. — **France**. Alpes-Maritimes, Saorge, M10-CAI1400-T5-M1, 1 ♂ (MNHN); same locality, M10-CAI1400-T6-M2, 1 ♀ (MNHN).

DISTRIBUTION. — Fauna Europaea: Austria, Bulgaria, Czech Republic, Denmark, Finland (doubtful), France, Germany, Greece, Moldova, Norway, Poland, Romania, Russia, Slovakia, Sweden, Switzerland, Ukraine; INPN: no data; additional data from Psyl'list: Slovenia.

#### COMMENTS

Description in Ossiannilsson (1992) and Burckhardt & Lauterer (2002b). Biology in Ossiannilsson (1992) and Lauterer (1994). Host-plants: several species of *Cirsium* (Asteraceae).

*Trioza flixiana* Burckhardt & Lauterer, 2002  
(Fig. 11)

*Trioza flixiana* Burckhardt & Lauterer, 2002: 800.

MATERIAL EXAMINED. — **France**. Alpes-Maritimes, Saint-Martin-Vésubie, M09-BOR1400-T1-M1, 1 ♀ (MNHN); same locality, M09-BOR1400-T2-M1, 1 ♀ (BMNH).

DISTRIBUTION. — Fauna Europaea: Austria, Czech Republic, Italy, Slovakia, Switzerland; INPN: no data; additional data from Psyl'list: Slovenia.

COMMENTS

Also reported from Spain on the GBIF portal. Description and elements of biology in Burckhardt & Lauterer (2002b). Host-plant: probably *Cirsium spinosissimum* (L.) Scop. (Asteraceae). New for France.

*Trioza kiefferi* Giard, 1902

*Trioza kiefferi* Giard, 1902: 121.

MATERIAL EXAMINED. — **France**. Alpes-Maritimes, Saorge, Malaise trap, M10-CAI1400-T6-M2, 1 ♀ (MNHN).

DISTRIBUTION. — Fauna Europaea: Italy (mainland + Sicily), Malta; INPN: no data; additional data from Psyl'list: Algeria, France, Portugal, Slovenia, ex-Yugoslavia.

COMMENTS

Description in Rapisarda (1989). Biology in Rapisarda (1989) and Conci *et al.* (1996). Host-plants: several species of *Rhamnus* (Rhamnaceae).

*Trioza lautereriella* Burckhardt, 1986

*Trioza lautereriella* Burckhardt, 1986: 424.

MATERIAL EXAMINED. — **France**. Alpes-Maritimes, Saorge, M10-CAI2000-T7-M1, 1 ♀ (MNHN).

DISTRIBUTION. — Fauna Europaea: France, Germany, Italy, Slovakia, Switzerland; INPN: no data; additional data from Psyl'list: no additional data.

COMMENTS

Description in Burckhardt (1986). Biology in Conci *et al.* (1996). Host-plants: *Angelica sylvestris* L. and *Daucus carota* L. (Apiaceae).

*Trioza marginepunctata* Flor, 1861

*Trioza marginepunctata* Flor, 1861: 396.

MATERIAL EXAMINED. — **France**. Alpes-Maritimes, Saorge, M10-CAI1400-T5-M2, 1 ♀ (MNHN); Alpes-Maritimes, Moulinet, Col de Turini, piste de Gasta-Fume, 1625 m, 43°58'27.1482"N-7°23'42.7374"E, 02.VII.2008, C. Cocquempot (CBGP), 1 adult.

DISTRIBUTION. — Fauna Europaea: France, Italy, Spain; INPN: no data; additional data from Psyl'list: Croatia, Hungary, Israel, Lebanon.

COMMENTS

Description and biology in Rapisarda (1989). Host-plant: *Rhamnus alaternus* L. (Rhamnaceae).

*Trioza munda* Foerster, 1848

*Trioza munda* Foerster, 1848: 88.

MATERIAL EXAMINED. — **France**. Alpes-Maritimes, Bolène-Vesubie, massif de la cime du Diable, 1800-2600 m, 28.VIII.1995, 1 ♂, I. Malenovský (MMBC).

DISTRIBUTION. — Fauna Europaea: Austria, Great Britain, Bulgaria, Czech Republic, France, Italy, Moldova, Norway, Poland, Romania, Slovakia, Sweden, Switzerland, Ukraine; INPN: no data; additional data from Psyl'list: Germany, Ireland, Japan, Mongolia, Russia (Amur), Slovenia.

COMMENTS

Description in Ossiannilsson (1992). Biology in Ossiannilsson (1992) and Conci *et al.* (1996). Host-plants: species of the genera *Knautia*, *Scabiosa* and *Succisa* (Caprifoliaceae).

*Trioza proxima* Flor, 1861

*Trioza proxima* Flor, 1861: 404.

MATERIAL EXAMINED. — **France**. Alpes-Maritimes, Bolène-Vesubie, massif de la cime du Diable, 1800-2600 m, 28.VIII.1995, 1 ♂, I. Malenovský (MMBC); Alpes-Maritimes, La Brigue, French-Italian border between Mt Grai (2013 m) and Cime de Marte (2135 m), 21.VIII.1996, 1 ♀, I. Malenovský (MMBC).

DISTRIBUTION. — Fauna Europaea: Austria, Great Britain, Bulgaria, Czech Republic, France, Germany, Italy, Poland, Russia, Slovakia, Spain (Balearic Is.), Switzerland; INPN: no data; additional data from Psyl'list: Belgium, Slovenia.

COMMENTS

Description in Hodkinson & White (1979) and Burckhardt (1983). Biology in Conci *et al.* (1996) and Lauterer & Malenovský (2002). Host-plants: several species of *Hieracium* (Asteraceae).

*Trioza rhamni* (Schrank, 1801)

*Chermes rhamni* Schrank, 1801: 141.

MATERIAL EXAMINED. — **France**. Alpes-Maritimes, Saint-Dalmas-le-Selvage, M09-SES1400-T1-M2, 1 ♀ (MNHN).

DISTRIBUTION. — Fauna Europaea: Austria, Czech Republic, Denmark, Finland, France, Germany, Great Britain, Italy, Moldova, Norway, Poland (doubtful), Romania, Russia, Slovakia, Spain, Sweden, Switzerland, Ukraine; INPN: no data; additional data from Psyl'list: Caucasus, Estonia, Hungary, Latvia, Slovenia, Turkey.

COMMENTS

Description in Hodkinson & White (1979a) and Ossiannilsson (1992). Biology in Ossiannilsson (1992), Conci *et al.*

(1996) and Lauterer (1999). Host-plants: *Rhamnus cathartica* L. and *Rhamnus pallasii* Fisch. & C. A. Mey. (Rhamnaceae).

*Trioza rumicis* Löw, 1880

*Trioza rumicis* Löw, 1880: 557.

MATERIAL EXAMINED. — **France.** Alpes-Maritimes, Saorge, M10-CAI2000-T7-M1, 1♀ (MNHN); Alpes-Maritimes, Bolène-Vesubie, massif de la cime du Diable, 1800-2600 m, 28.VIII.1995, 1♀ I. Malenovský (MMBC); Alpes-Maritimes, La Brigue, French-Italian border between Mt Grai (2013 m) and Cime de Marte (2135 m), 21.VIII.1996, 5♂, 3♀, I. Malenovský (MMBC).

DISTRIBUTION. — Fauna Europaea: Austria, France, Germany, Italy, Poland, Romania, Slovakia, Switzerland; INPN: no data; additional data from Psyllist: Iran.

COMMENTS

Description in Dobreanu & Manolache (1962) and Klimaszewski (1967). Biology in Conci *et al.* (1996). Host-plants: several species of *Rumex* (Polygonaceae).

*Trioza schrankii* Flor, 1861

*Trioza schrankii* Flor, 1861: 403.

MATERIAL EXAMINED. — **France.** Alpes-Maritimes, Saorge, M10-CAI2000-T6-M1, 1♂ (BMNH); same locality, M10-CAI2000-T7-M1, 2♂ (MNHN).

DISTRIBUTION. — Fauna Europaea: Austria, Czech Republic, France, Germany, Italy, Poland, Romania, Slovakia, Switzerland, Ukraine; INPN: no data; additional data from Psyllist: Slovenia.

COMMENTS

Description in Dobreanu & Manolache (1962) and Klimaszewski (1967) (for *T. schranki* [sic]). Biology in Conci *et al.* (1996) and Lauterer & Malenovský (2002). Host-plant: *Astrantia major* L. (Apiaceae).

*Trioza senecionis* (Scopoli, 1763)

*Chermes senecionis* Scopoli, 1763: 140.

MATERIAL EXAMINED. — **France.** Alpes-Maritimes, Saorge, M10-CAI1400-T3-M1, 1♀ (MNHN); same locality, M10-CAI1400-T7-M1, 1♂, 2♀ (BMNH); same locality, M10-CAI1400-T6-M2, 17♂, 7♀ (MNHN); same locality, M10-CAI1400-T7-M2, 27♂, 21♀ (MNHN).

DISTRIBUTION. — Fauna Europaea: Austria, Czech Republic, Germany, Italy, Poland, Romania, Slovakia, Switzerland, Ukraine; INPN: no data; additional data from Psyllist: Slovenia.

COMMENTS

Description in Dobreanu & Manolache (1962) and Klimaszewski (1967). Biology in Conci *et al.* (1996). Three specimens reported from France in the GBIF portal. Host-plant: *Senecio fuchsii* C. C. Gmel. (Asteraceae) (sometimes treated as

subspecies of *nemorensis*) (Asteraceae). The suggestion that *Adenostyles* might be a host (Wagner & Franz 1961) could not be confirmed and this should be removed from the list of host-plants of *T. senecionis*.

*Trioza urticae* (Linnaeus, 1758)

*Chermes urticae* Linnaeus, 1758: 454.

MATERIAL EXAMINED. — **France.** Alpes-Maritimes, Saint-Martin-Vésubie, M09-BOR1400-T1-M2, 1♂, 1♀ (MNHN); same locality, M09-BOR1400-T2-M2, 4♂ (MNHN); same locality, M09-BOR1400-T8-M2, 1♀ (MNHN); same locality, M09-BOR1400-T1-M1, 5♂, 2♀ (MNHN); Alpes-Maritimes, Valdeblore, M09-SES2000-T2-M2, 1♀ (MNHN); Alpes-Maritimes, Saorge, M10-CAI1400-T1-M1, 2♂, 3♀ (MNHN); same locality, M10-CAI1400-T1-M2, 1♂, 7♀ (MNHN); same locality, M10-CAI1400-T2-M2, 1♂, 2♀ (MNHN); same locality, M10-CAI1400-T3-M2, 1♂ (MNHN); same locality, M10-CAI1400-T4-M2, 1♂ (MNHN); same locality, M10-CAI2000-T1-M2, 1♂ (MNHN); same locality, M10-CAI2000-T7-M2, 3♀ (MNHN); same locality, M10-CAI2000-T2-M1, 1♂ (MNHN); same locality, M10-CAI2000-T3-M1, 2♂ (MNHN); same locality, M10-CAI2000-T7-M1, 5♂, 2♀ (MNHN); Alpes-Maritimes, Moulinet, Col de Turini, piste de Gasta-Fume, 1625 m, 43°58'27.1482"N-7°23'42.7374"E, 02.VII.2008, C. Cocquempot (CBGP), 8 adults; Alpes-Maritimes, Moulinet, Col de Turini, 1610 m, 43°58'37.56"N-7°23'30.7782"E, 09.VII.2009, on herbaceous plants, C. Cocquempot (CBGP), 13 adults; Alpes-Maritimes, Lantosque, Col d'Andrion (Col du Fort), 1990 m, 44°1'3.8202"N-7°15'12.1206"E, 13.VII.2009, on *Epilobium angustifolium* L., C. Cocquempot (CBGP), 10 adults; Alpes-de-Haute-Provence, Colmars-les-Alpes, Ratéry, 1670 m, 44°11'16.5804"N-6°39'15.4548"E, 10.VII.2011, on *Urtica* sp., C. Cocquempot (CBGP), 3 adults.

DISTRIBUTION. — Fauna Europaea: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Finland, France, Germany, Great Britain, Greece, Ireland, Italy (mainland + Sardinia + Sicily), Malta, Moldova, Norway, Poland, Romania, Russia, Slovakia, Slovenia, Spain (mainland + Balearic Is.), Sweden, Switzerland, Ukraine; INPN: no data; additional data from Psyllist: Afghanistan, Algeria, Caucasus, China, Hungary, India, Iran, Japan, Lithuania, Portugal (Madeira), Mongolia, Tadjikistan, Turkey, West Himalaya (Uttaranchal = Uttarakhand).

COMMENTS

Description in Hodkinson & White (1979a) and Ossiannilsson (1992). Biology in Ossiannilsson (1992), Lauterer (1994, 2011) and Conci *et al.* (1996). Host-plants: several species of *Urtica* (Urticaceae).

*Trioza velutina* Foerster, 1848

*Trioza velutina* Foerster, 1848: 87.

MATERIAL EXAMINED. — **France.** Alpes-Maritimes, Saorge, M10-CAI2000-T1-M1, 1♂ (BMNH); same locality, M10-CAI2000-T2-M1, 1♂ (MNHN); same locality, M10-CAI2000-T3-M1, 2♂ (MNHN); Alpes-Maritimes, Saint-Martin-Vésubie, M09-SES1400-T1-M1, 1♂, 2♀ (MNHN).



DISTRIBUTION. — Fauna Europaea: Austria, Czech Republic, France, Germany, Great Britain, Slovakia; INPN: no data; additional data from Psyl'list: Slovenia.

#### COMMENTS

Description in Burckhardt & Lauterer (2006). No precise data available on biology, since this species was confused with *Trioza galii* Foerster, 1848 in all works preceding the revision by Burckhardt & Lauterer (2006). Host-plants: unknown, probably several species of Rubiaceae, as for *T. galii*.

#### DISCUSSION

The psyllids collected in 2009, 2010 and 2011 during the ATBI+M project in the Mercantour National Park (together with the four species collected by I. Malenovský in the 1990's) comprise 68 species (40.2% of the 169 species reported from France in Fauna Europaea). Compared to the size of the Park, which covers only *c.* 0.12% of Metropolitan France, these results reflect the importance of such protected area for preserving ecosystems, especially in groups like psyllids that are closely dependant on the presence and abundance of their host-plants.

Seven of the species are new for France. In the case of *Craspedolepta artemisiae*, the data from Mercantour represent the westernmost record. *Craspedolepta nebulosa*, *Cacopsylla propinqua* and *Cyamophila probaskai* were already known from the Swiss (Burckhardt 1994b; Burckhardt *et al.* 2007; Schaefer 1949) and Italian Alps (Conci *et al.* 1993). *Trioza flixiana* is also known from the Swiss Alps (Burckhardt & Lauterer 2002b), but shows a larger area of distribution (Pyrenees, Spanish Basque Country; GBIF data) at a wider range of altitudes (Spain and Czech Republic). *Bactericera parastriola* was also known from the Swiss and Italian Alps, but also from Poland, Romania and Sweden (Conci *et al.* 1988), from Austria (Burckhardt & Lauterer 1997) and, more recently, from the Czech Republic (Lauterer & Malenovský 2002), indicating a boreomontane distribution. The presence of *Eryngiofaga refuga*, otherwise known only from Kazakhstan and West Siberia, remains to be confirmed, since only one male has been collected from Mercantour.

The range of altitudes in the Park, from 490–3143 m a.s.l., makes the potential psyllid fauna even richer than 67 species in the area, since only altitudes from 1421–2058 m have been sampled. That is why we find here several orophilous species like *Psylla alpina* (Pyrenees, Alps, Carpathians), *Trioza caesaris* (Alps), *Trioza schrankii* (Massif Central, Alps, Carpathians), *Trioza brachyceraea* (Massif Central, Alps), *Trioza senecionis* (Alps, Carpathians) and *Aphalara sauteri* (Alps and Andalusia according to Burckhardt & Lauterer 1997).

Other orophilous species found in the park that show a larger area of distribution, including Fennoscandia and/or expanding eastward, are: *Bactericera femoralis*, *Bactericera bohémica*, *Cacopsylla rhododendri*, *Psylla fusca*, *Trioza abdominalis*, *Trioza cerastii* and *Trioza proxima*. *Livilla pyrenaea* is present in the Pyrenees and the Alps, as well as in Algeria.

Two species, *Ctenarytaina eucalypti* and *Acizzia uncatoides*, originate from Australia and have been introduced into France on *Eucalyptus* (in the early 1980s) and on *Acacia* and *Albizzia*, respectively. Despite the presence of two males in a Malaise trap in this study, most populations of *C. eucalypti* have been controlled in eastern-southern France by the introduction of a specific parasitoid wasp, *Psyllaephagus pilosus* Noyes, 1988 (Malaus & Girardet 1997; Hodkinson 1999). *Calophya rhois* originates from East Asia, as does its host (*Cotinus coggygria*), and has probably been naturalised in France for a long time. *Livilla variegata* probably originates from eastern Europe, and its wide current distribution may be due to the use of *Laburnum* as an ornamental tree in many places in Europe. Another eucalyptus-feeding species originating from Australia, *Glycaspis brimblecombei* Moore, 1964, has recently been discovered in France (Cocquempot *et al.* 2012), in the southern part of the Alpes-Maritimes department, and could also be present in the Mercantour park on *Eucalyptus camaldulensis* Dehnh.

Several other orophilous species known from France have not been collected in the Mercantour, which may be due to the collecting methods used (mainly Malaise traps and limited net sweeping): *Cacopsylla corcontum* (Šulc, 1909), *C. elegantula* (Zetterstedt, 1840), *C. hippophaes* (Foerster, 1848), *C. myrtilli* (Wagner, 1947), *Bactericera bucegica* (Dobreanu & Manolache, 1962), *Trioza chrysanthemi* Löw, 1878, *T. dispar* Löw, 1878, *T. laserpitii* Burckhardt & Lauterer, 1982, *T. saxifragae* Löw, 1888, *T. rotundata* Flor, 1861 and *T. tatrensis* Klimaszewski, 1965.

Future fieldwork in the Mercantour National Park may lead to the discovery of several alpine or subalpine species never collected in France before, but present in bordering countries (Switzerland and Italy), such as *Livilla vicina* (Löw, 1886), *L. vittipennella* (Reuter, 1875), *Bactericera harrisoni* (Wagner, 1955), *Trioza remaudierei* Burckhardt & Lauterer, 2002, the rare *T. megacerca* Burckhardt, 1983 and *T. tripteridis* Burckhardt, Conci, Lauterer & Tamanini, 1991.

*Cacopsylla iteophila* is a rare and localised species (Conci & Tamanini 1990b) that feeds on *Salix*.

The most abundant species in Malaise traps, which are rarely used for collecting Psylloidea, were *Livilla pyrenaea*, *Trioza senecionis* and *Cacopsylla brunneipennis*. In sweep-net samples, the most common species were *Cacopsylla sorbi* and *C. artemisiae* (>100 specimens), followed by *Psyllopsis fraxinicola*, *Trioza centranthi* and *C. brunneipennis*.

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